California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

ORIGIN

Query Match   100.0%;   Score 230; DB 12; Length 827;
Best Local Similarity 100.0%; Pred. No. 5.8e-37;
Matches 230; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy    1  GTGCTGTGACACCGACTTGTGCAACGCAGCGGGGCCCATGCCGCTGCCGC  60
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Db  270  GTGCTGTGACACCGACTTGTGCAACGCAGCGGGGCCCATGCCGCTGCCGC  329

Qy   61  CATCCTTGGCTGCTCCCTGCACTCGGCCTGCTCTCGGGGACCCGGCTATAGGC  120
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Db  330  CATCCTTGGCTGCTCCCTGCACTCGGCCTGCTCTCGGGGACCCGGCTATAGGC  389

Qy  121  TCTGGGGGGCCCCGCTGCGAGCCCACACTGGGTGGTGCCCAGGCCTCTGTGCCACTCC  180
         ||||||||||||||||||||||||||||||||||||||
Db  390  TCTGGGGGGCCCCGCTGCGAGCCCACACTGGGTGGTGCCCAGGCCTCTGTGCCACTCC  449

Qy  181  TCACAGACCTGGCCCAGTGGGGAGCCTGTGCTCCTGGTTCCTGAGGCACATCCT  230
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Db  450  TCACAGACCTGGCCCAGTGGGGAGCCTGTGTCCTGGTTCCTGAGGCACATCCT  499
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RESULT 8
BU194301

LOCUS   BU194301   911 bp   mRNA   linear   EST 04-SEP-2002
DEFINITION AGENCOURT_7962297 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6106261
            5', mRNA sequence.
ACCESSION   BU194301
VERSION   BU194301.1 GI:22708285
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 911)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2347 row: a   column: 14
            High quality sequence stop: 649.
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6106261"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: sKin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN

Query Match   100.0%;   Score 230; DB 13; Length 911;
Best Local Similarity 100.0%; Pred. No. 6e-37;
Matches 230; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy    1  GTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCGCTGCCGC  60
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Db  169  GTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCGCTGCCGC  228

Qy   61  CATCCTTGGCTGCTCCCTGCACTCGGCCTGCTCTCGGGGACCCGGCTATAGGC  120
         |||||||||||||||||||||||||||||||||||||||||||||||||||
Db  229  CATCCTTGGCTGCTCCCTGCACTCGGCCTGCTCTCGGGGACCCGGCTATAGGC  288

Qy  121  TCTGGGGGGCCCCGCTGCAGCAGCCCACACTGGTGTGTGGTGCCCCAGGCCTCTGTGCCACTCC  180
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Db  289  TCTGGGGGGCCCCGCTGCAGCAGCCCACACTGGTGTGTGGTGCCCCAGGCCTCTGTGCCACTCC  348

Qy  181  TCACAGACCTGGCCCAGTGGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT  230
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Db  349  TCACAGACCTGGCCCAGTGGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT  398
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RESULT 9
BU168360

LOCUS   BU168360   922 bp   mRNA   linear   EST 04-SEP-2002
DEFINITION AGENCOURT_7983951 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6110984
            5', mRNA sequence.
ACCESSION   BU168360
VERSION   BU168360.1 GI:22682344
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 922)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2359 row: f   column: 09
            High quality sequence stop: 597.
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6110984"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: sKin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN

Query Match   100.0%;   Score 230; DB 13; Length 922;
Best Local Similarity 100.0%; Pred. No. 6e-37;
Matches 230; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy    1  GTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCGCTGCCGC  60
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Db  170  GTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCGCTGCCGC  229
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RESULT 10

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Qy   61 CATCCTTGCGCTGCTCCCTGCACTCGGCTGCTCTGGGAGACCCGGCCAGCTATAGGC 120
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Db  230 CATCCTTGCGCTGCTCCCTGCACTCGGCTGCTCTGGGAGACCCGGCCAGCTATAGGC 289

Qy  121 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCACTCC 180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  290 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCACTCC 349

Qy  181 TCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 230
        ||||||||||||||||||||||||||||||||||||||||||||||||||
Db  350 TCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 399
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RESULT 10
BU174317
LOCUS       BU174317              924 bp   mRNA    linear   EST 04-SEP-2002
DEFINITION  AGENCOURT_8102304 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6252811
            5', mRNA sequence.
ACCESSION   BU174317
VERSION     BU174317.1  GI:22688301
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 924)
AUTHORS     NIH-MGC http://mgc.nci.nih.gov/.
TITLE       National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL     Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2399 row: k  column: 20
            High quality sequence stop: 587.
FEATURES             Location/Qualifiers
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                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6252811"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC 112"
                     /note="Organ: skin; Vector: pOTB7; Site_1: XhoI; Site_2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN
Query Match             100.0%;  Score 230;  DB 13;  Length 924;
Best Local Similarity   100.0%;  Pred. No. 6e-37;
Matches   230;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;
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Qy    1 GTGCTGTGACACGACTTGTGCAACGCCAGCCAGCGGGGCCAGGGGCTCAGCGCTGCCGC 60
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  169 GTGCTGTGACACGACTTGTGCAACGCCAGCCAGCGGGGCCAGGGGCTCAGCGCTGCCGC 228

Qy   61 CATCCTTGCGCTGCTCCCTGCACTCGGCTGCTCTGGGAGACCCGGCCAGCTATAGGC 120
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  229 CATCCTTGCGCTGCTCCCTGCACTCGGCTGCTCTGGGAGACCCGGCCAGCTATAGGC 288

Qy  121 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCACTCC 180
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Db          ...
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RESULT 11

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Db  289 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCACTCC 348

Qy  181 TCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 230
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Db  349 TCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 398
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RESULT 11
BM018834
LOCUS       BM018834              972 bp   mRNA    linear   EST 30-OCT-2001
DEFINITION  603646752F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:5428285 5',
            mRNA sequence.
ACCESSION   BM018834
VERSION     BM018834.1  GI:16533188
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 972)
AUTHORS     NIH-MGC http://mgc.nci.nih.gov/.
TITLE       National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL     Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM1895 row: h  column: 14
            High quality sequence stop: 831.
FEATURES             Location/Qualifiers
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                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5428285"
                     /tissue_type="astrocytoma grade IV, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC 98"
                     /note="Organ: brain; Vector: pOTB7; Site_1: XhoI; Site_2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally
                     cloned into EcoRI/XhoI sites using the following 5'
                     adaptor: GGCACGAG(G). Library constructed by Ling Hong
                     in the laboratory of Gerald M. Rubin (University of
                     California, Berkley) using ZAP-cDNA synthesis kit
                     (Stratagene) and Superscript II RT (Life Technologies).
                     Note: this is a NIH_MGC Library."
ORIGIN
Query Match             100.0%;  Score 230;  DB 12;  Length 972;
Best Local Similarity   100.0%;  Pred. No. 6.1e-37;
Matches   230;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;
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Qy    1 GTGCTGTGACACGACTTGTGCAACGCCAGCCAGCGGGGCCCATGCGCTGCGAGCGCTGCCGGC 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  270 GTGCTGTGACACGACTTGTGCAACGCCAGCCAGCGGGGCCCATGCCTCTGGGGACCCGGCCAGCTATAGGC 329

Qy   61 CATCCTTGCGCTGCTCCCTGCACTCGGCTGCTCTGGGAGACCCGGCCAGCTATAGGC 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  330 CATCCTTGCGCTGCTCCCTGCACTCGGCTGCTCTGGGAGACCCGGCCAGCTATAGGC 389

Qy  121 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCACTCC 180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  390 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCACTCC 449

Qy  181 TCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 230
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Db  450 TCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 499

Qy  181 TCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 230
Qy  121 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCACTCC 180
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RESULT 12
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ID   BC023582      standard; mRNA; HTC; 1024 BP.
XX
AC   BC023582;
XX
SV   BC023582.1
XX
DT   01-NOV-2002 (Rel. 73, Created)
DT   05-MAR-2003 (Rel. 75, Last updated, Version 3)
XX
DE   Homo sapiens, Similar to prostate stem cell antigen, clone IMAGE:4840974,
DE   mRNA.
XX
KW   HTC.
XX
OS   Homo sapiens (human)
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC   Eutheria; Primates; Catarrhini; Hominidae; Homo.
XX
RN   [1]
RC   NIH-MGC Project URL: http://mgc.nci.nih.gov
RP   1-1024
RA   Strausberg R.;
RT   ;
RL   Submitted (05-FEB-2002) to the EMBL/GenBank/DDBJ databases.
RL   National Institutes of Health, Mammalian Gene Collection (MGC), Cancer
RL   Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03,
RL   Bethesda, MD 20892-2590, USA
XX
DR   R2PD; IRALp962M1933.
XX
CC   Contact: MGC help desk
CC   Email: cgapbs-r@mail.nih.gov
CC   Tissue Procurement: ATCC/DCTD/DTP
CC   cDNA Library Preparation: Rubin Laboratory
CC   cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
CC   DNA Sequencing by: National Institutes of Health Intramural
CC   Sequencing Center (NISC),
CC   Gaithersburg, Maryland.
CC   Web site: http://www.nisc.nih.gov/
CC   Contact: nisc_mgc@nhgri.nih.gov
CC   Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
CC   Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
CC   Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
CC   Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
CC   Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D.,McCloskey,J.C.,
CC   McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
CC   Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
CC   Young,A., Zhang,L.-H. and Green,E.D.
CC   Clone distribution: MGC clone distribution information can be found
CC   through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
CC   Series: IRAL Plate: 33 Row: m Column: 19
CC   This clone was selected for full length sequencing because it
CC   passed the following selection criteria: matched mRNA gi: 5031994
CC   This clone has the following problem: retained intron.
XX
FH   Key             Location/Qualifiers
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FT   source          1..1024
FT                   /db_xref="taxon:9606"
FT                   /db_xref="R2PD:IRALp962M1933"
FT                   /mol_type="mRNA"
FT                   /note="Vector: pOTB7"
FT                   /organism="Homo sapiens"
FT                   /clone="IMAGE:4840974"
FT                   /tissue_type="Skin, melanotic melanoma, high MDR."
FT                   /clone_lib="NIH_MGC_49"
FT                   /lab_host="DH10B-R"
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Best Local Similarity   100.0%;  Pred. No. 6.3e-37;
Matches  230;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

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Db    270 GTGCTGTGACACCGACTTGTGCAACCGCCAGCGGGGCCCATGCCTCAGCGGCGGCTGCCGC 329

Qy     61 CATCCTTGCGCTGCTCCCTGCACTCGGCGCTCTGCTCTGGGGACCCGGCCAGCTATAGGC 120
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Db    330 CATCCTTGCGCTGCTCCCTGCACTCGGCGCTCTGCTCTGGGGACCCGGCCAGCTATAGGC 389

Qy    121 TCTGGGGGGCCCGCTGCAGCCCACACTGGGTGTGTGCCCCAGGCCTCTGTGCCACTCC 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    390 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGGTGTGGGTGCCCCAGGCCTCTGTGCCACTCC 449

Qy    181 TCACAGACCTGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 230
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Db    450 TCACAGACCTGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 499
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RESULT 13
BU157227
BU157227
LOCUS       BU157227                880 bp    mRNA    linear    EST 04-SEP-2002
DEFINITION  AGENCOURT 7983964 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6110937
            5', mRNA sequence.
ACCESSION   BU157227
VERSION     BU157227.1  GI:22670759
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 880)
AUTHORS     NIH-MGC http://mgc.nci.nih.gov/.
TITLE       National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL     Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2359 row: d  column: 10
            High quality sequence stop: 581.
FEATURES             Location/Qualifiers
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                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6110937"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCCACGAG(G) Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN
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Query Match             98.6%;  Score 226.8;  DB 13;  Length 880;
Best Local Similarity   99.1%;  Pred. No. 2.7e-36;
Matches  228;  Conservative  0;  Mismatches  2;  Indels  0;  Gaps  0;

Qy      1 GTGCTGTGACACCGACTTGTGCAACCGCCAGCGGGGCCCATGCCTCAGCGGCGGCTGCCGC 60
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Best Local Similarity 98.3%; Pred. No. 1e-35;
Matches 226; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   270 GTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAACGCCGGCTATAGGC  329

Qy    61 CATCCTTGCGTGCTCCCTGCACTCGGCGCTGCTCGGCGCTGCTCTCGGGACCCGGCCAGTAGGC  120
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   330 CATCCTTGCGTGCTCCCTGCACTCGGCGCTGCTCGGCGCTGCTCTCGGGACCCGGCCAGTCTAGGC  389

Qy   121 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCCACTCC  180
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   390 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCCACTCC  449

Qy   181 TCACAGACCTGGCCCAGTGGGAGGCCTGTCCTGGTTCCTGAGGCACATCCT  230
         |||||||||||||||||||||||||||||||||||||||||||
Db   450 TCACACCCCGGCCCAGTGGGAGGCCTGTCCTGGTTCCTGAGGCACATCCT  499
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RESULT 15
BM042052
LOCUS   BM042052   749 bp   mRNA   linear   EST 07-NOV-2001
DEFINITION 603610054F1 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:5420700 5',
            mRNA sequence.
ACCESSION   BM042052
VERSION   BM042052.1 GI:16771319
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 749)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
            National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE   Unpublished (1999)
JOURNAL   Contact: Robert Strausberg, Ph.D.
COMMENT   Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
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                     /clone="IMAGE:5420700"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: sKin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN
Query Match   97.2%; Score 223.6; DB 12; Length 749;
Best Local Similarity 98.3%; Pred. No. 1.1e-35;
Matches 226; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db   571 TCTGGGGGGCCCCGCTGCCACACTGGGTGTGCCCCAGGCCTCTGTGCCCACTCC  630

Qy   181 TCACAGACCTGGCCCAGTGGGAGGCCTGTCCTGGTTCCTGGTTCCTGAGGCACATCCT  230
         
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RESULT 14
BM828076
LOCUS   BM828076   547 bp   mRNA   linear   EST 06-MAR-2002
DEFINITION K-EST0100821 S9SNU601 Homo sapiens cDNA clone S9SNU601-48-D10 5',
            mRNA sequence.
ACCESSION   BM828076
VERSION   BM828076.1 GI:19184485
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 547)
AUTHORS   Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
            Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
            Kim,Y.S.
TITLE   21C Frontier Korean EST Project 2001
JOURNAL   Unpublished (2002)
COMMENT   Contact: Kim YS
            Genome Research Center
            Korea Research Institute of Bioscience & Biotechnology
            52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
            Tel: +82-42-860-4470
            Fax: +82-42-860-4409
            Email: yongsung@mail.kribb.re.kr
            Plate: 48 row: D column: 10
            High quality sequence stop: 547.
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                     /lab_host="Top10F'"
                     /clone_lib="S9SNU601"
                     /note="Organ: Stomach; Vector: pME18-FL3; Site 1: XhoI;
                     Site 2: XhoI; The poly (A)+ RNA was dephosphorylated with
                     bacterial alkaline phosphatase (BAP) and then decapped
                     with tabacco acid pyrophosphatase (TAP). The decapped
                     intact mRNA was ligated with DNA-RNA linker including SfiI
                     site by treatment of T4 RNA ligase and the first strand
                     cDNA was synthesized with Superscript II using SfiI
                     oligo-dT primer. After first strand synthesis, RNA was
                     degraded by NaOH treatment and cDNA was amplified by PCR
                     reaction. The PCR products were digested with SfiI and
                     cloned into DraIII- digested pME18S-FL3 vector. The
                     obtained cDNA vectors were used for transformation of
                     competent cells E. coli Top10F' by electroporation method.
                     The cDNA libraries constructed by this method are
                     full-length enriched cDNA library."
ORIGIN
Query Match   97.2%; Score 223.6; DB 12; Length 547;

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Qy    181  TCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT  230
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Job time : 1053.77 secs

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OM nucleic - nucleic search, using sw model

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GenCore version 5.1.6

Run on: September 18, 2004, 04:35:58 ; Search time 1166.74 Seconds
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Perfect score: 233
Sequence: 1 CTGCCCAGTGGGAGCCTGT........AACCCTGTGCTCAGGCACCT 233

Scoring table: IDENTITY_NUC
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Searched: 3470272 seqs, 2167516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
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   41: em_htgo_other:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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	1	232	99.6	232	960	6	AR410610	AR410610 Sequence
	2	232	99.6	232	960	6	AX201328	AX201328 Sequence
	3	232	99.6	232	960	6	AX697426	AX697426 Sequence
	4	232	99.6	232	960	6	BD075381	BD075381 Secretory
	5	232	99.6	232	960	6	BD172241	BD172241 Secreted
	6	232	99.6	232	960	6	BD172560	BD172560 Secreted
	7	232	99.6	232	960	6	BD172879	BD172879 Secreted
	8	232	99.6	232	960	6	BD173198	BD173198 Secreted
	9	232	99.6	232	960	6	BD175232	BD175232 Secretory
	10	232	99.6	232	960	9	AY358912	AY358912 Homo sapi
	11	232	99.6	232	979	6	BD076397	BD076397 Human pro
	12	232	99.6	232	1015	9	BC023582	BC023582 Homo sapi
	13	232	99.6	232	157839	2	AC015718	AC015718 Homo sapi
	14	230.4	98.9	232	758	6	AX014148	AX014148 Sequence
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	16	230.4	98.9	232	946	9	HSA297436	AJ297436 Homo sapi
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	23	177	76.0	177	998	6	AR162849	AR162849 Sequence
	24	177	76.0	177	998	6	BD264314	BD264314 PSCA: pro
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	31	41	17.6		141660	2	AC144386	AC144386 Pan trogl
c	32	40.6	17.4		234391	2	AC121433	AC121433 Rattus no
c	33	40.6	17.4		256899	2	AC097413	AC097413 Rattus no
c	34	40.2	17.3		142201	2	AC124248	AC124248 Homo sapi
c	35	40.2	17.3		156889	2	AC004586	AC004586 Homo sapi
	36	40	17.2		43346	2	AC005787	AC005787 Homo sapi
	37	39.6	17.2		2416	9	AB074449	AB074449 Macaca fa
c	38	39.6	17.0		193894	9	AC114730	AC114730 Homo sapi
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	41	39.2	16.8		277756	2	AC139378	AC139378 Mus muscu
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	43	38.8	16.7		131676	9	AC139749	AC139749 Homo sapi
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ALIGNMENTS

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LOCUS   AR410610   960 bp   DNA   linear   PAT 18-DEC-2003
DEFINITION Sequence 17 from patent US 6635468.
ACCESSION   AR410610
VERSION   AR410610.1   GI:40162110
KEYWORDS   .
SOURCE   Unknown.
  ORGANISM Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 960)
  AUTHORS   Ashkenazi,A., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
            Filvaroff,E., Fong,S., Gao,W.-Q., Gerber,H., Gerritsen,M.E.,
            Goddard,A., Godowski,P.J., Grimaldi,J.C., Gurney,A.L., Hillan,K.J.,
            Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,

Pred. No. is the number of results predicted by chance to have a

TITLE　　　　Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
　　　　　　　Secreted and transmembrane polypeptides and nucleic acids encoding
　　　　　　　the same
JOURNAL　　Patent: US 6635468-A 17 21-OCT-2003;
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Best Local Similarity　　99.6%; Pred. No. 1.2e-47;
Matches 232;　Conservative　0;　Mismatches　1;　Indels　0;　Gaps　0;

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Qy　　 61 TATGTCTGCNCCCTGTCCCCACCCTGACCCTCCATGGCCCTTCTCCAGGACTCCCACC 120
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Qy　　 121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCTCCAACCCTCTGC 180
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Qy　　 181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTAACCCTGTGCTCAGGCACCT 233
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Db　　 612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 2
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LOCUS　　　　　AX201328　　　　　　　960 bp　　　DNA　　　linear　　PAT 30-AUG-2001
DEFINITION　Sequence 7 from Patent WO0153486.
ACCESSION　　AX201328
VERSION　　　AX201328.1　GI:15391156
KEYWORDS　　.
SOURCE　　　Homo sapiens (human)
　ORGANISM　Homo sapiens
　　　　　　　Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
　　　　　　　Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE　1
　AUTHORS　　Ashkenazi,A.J., Goddard,A., Godowski,P.J., Gurney,A.L.,
　　　　　　　Hillan,K.J., Marsters,S.A., Pan,J., Pitti,R.M., Roy,M.A., Smith,V.,
　　　　　　　Stone,D.M., Watanabe,C.K. and Wood,W.I.
　TITLE　　　Compositions and methods for the treatment of tumour
　JOURNAL　　Patent: WO 0153486-A 7 26-JUL-2001;
　　　　　　　Genentech, Inc. (US)
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ORIGIN

Query Match　　　　99.6%; Score 232; DB 6; Length 960;
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Qy　　 181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTAACCCTGTGCTCAGGCACCT 233
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Db　　 612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

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DEFINITION　Sequence 17 from Patent WO0104311.
ACCESSION　　AX697426
VERSION　　　AX697426.1　GI:29498554
KEYWORDS　　.
SOURCE　　　Homo sapiens (human)
　ORGANISM　Homo sapiens
　　　　　　　Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
　　　　　　　Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE　1
　AUTHORS　　Ashkenazi,A.J., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
　　　　　　　Filvaroff,E., Fong,S., Gao,W.Q., Gerber,H., Gerrisen,M.E.,
　　　　　　　Goddard,A., Godowski,P.J., Grimaldi,C.J., Gurney,A.L., Hillan,K.J.,
　　　　　　　Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,
　　　　　　　Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
　TITLE　　　Secreted and transmembrane polypeptides and nucleic acids encoding
　　　　　　　the same
　JOURNAL　　Patent: WO 0104311-A 17 18-JAN-2001;
　　　　　　　Genentech,Inc. (US)
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ORIGIN

Query Match　　　　99.6%; Score 232; DB 6; Length 960;
Best Local Similarity　　99.6%; Pred. No. 1.2e-47;
Matches 232;　Conservative　0;　Mismatches　1;　Indels　0;　Gaps　0;

Qy　　　1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
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Db　　 432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

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Qy　　 121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCTCCAACCCTCTGC 180
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Qy　　 181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTAACCCTGTGCTCAGGCACCT 233
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Db　　 612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 4
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LOCUS　　　　　BD075381　　　　　　　960 bp　　　DNA　　　linear　　PAT 27-AUG-2002
DEFINITION　Secretory and transmembrane polypeptide and nucleic acid encoding
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ACCESSION　　BD075381
VERSION　　　BD075381.1　GI:22620984
KEYWORDS　　JP 2001516580-A/14.
SOURCE　　　Homo sapiens (human)
　ORGANISM　Homo sapiens
　　　　　　　Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
　　　　　　　Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE　1 (bases 1 to 960)
　AUTHORS　　Wood,W.I., Gurney,A.L., Goddard,A., Penica,D., Chen,J. and Yuan,J.
　TITLE　　　Secretory and transmembrane polypeptide and nucleic acid encoding
　　　　　　　the same
　JOURNAL　　Patent: JP 2001516580-A 14 02-OCT-2001;
　　　　　　　GENENTECH INC
COMMENT　　OS　Homo sapiens (human)
　　　　　　　PN　JP 2001516580-A/14

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ACCESSION   BD172241
VERSION     BD172241.1  GI:28413539
KEYWORDS    JP 2002223786-A/14.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
AUTHORS     Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
TITLE       Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
JOURNAL     Patent: JP 2002223786-A 14 13-AUG-2002;
            GENENTECH INC
COMMENT     OS   Homo sapiens (human)
            PN   JP 2002223786-A/14
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WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
JEAN ZHENG,
PI   JEAN YUAN
PC   C12N15/09,C07K14/47,C07K16/18,C07K19/00,C12N1/19,C12N1/21, PC
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PI   WILLIAM I WOOD,AUSTIN L GURNEY,AUDLEY GODDARD,DIANE PENICA, PI
JEAN CHEN,
PI   JEAN YUAN
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Qy    121 CGGCAGATCAGCTCAGTGACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTCTGC 180
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Qy    181 TGCTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTTCAGGCACCT 233
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RESULT 5
BD172241      960 bp   DNA   linear   PAT 18-FEB-2003
LOCUS       BD172241
DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding
            the same.
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ORIGIN

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VERSION     BD172879.1  GI:28414185
KEYWORDS    JP 2002238587-A/14.
SOURCE      Homo sapiens (human)
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            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: JP 2002238587-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT     OS   Homo sapiens (human)
            PN   JP 2002238587-A/14
            PD   27-AUG-2002
            PF   18-DEC-2001 JP 2001385248
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Qy  181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTGTTGCTCAGGCACCT 233
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ACCESSION   BD172560
VERSION     BD172560.1  GI:28413862
KEYWORDS    JP 2002238586-A/14.
SOURCE      Homo sapiens (human)
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            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: JP 2002238586-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT     OS   Homo sapiens (human)
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            JIAN ZHENG,
            PI   JEAN YUAN
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WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
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Query Match              99.6%;  Score 232;  DB 6;  Length 960;
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Qy      181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
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DEFINITION  Secretory and transmembrane polypeptide and nucleic acid encoding
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ACCESSION   BD175232
VERSION     BD175232.1  GI:29120928
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ORGANISM    Homo sapiens
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WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
JEAN YUAN,
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PC   C12N15/09,C07K14/47,C07K16/18,C12N1/19,C12N1/21,C12N5/10, PC
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(C12P21/02,C12R1:645),C12N15/00,C12N5/00,C12N5/00,C12R1:91) CC   Secreted
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same
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ORIGIN

Query Match              99.6%;  Score 232;  DB 6;  Length 960;
Best Local Similarity    99.6%;  Pred. No. 1.2e-47;
Matches   232;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy        1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
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Qy       61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCCACCGCCCTCCAGGACTCCCACC 120
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Qy      121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCAACCCTCTCTGC 180
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Qy      181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
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Db      612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

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LOCUS       BD173198               960 bp    DNA     linear   PAT 18-FEB-2003
DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding
            the same.
ACCESSION   BD173198
VERSION     BD173198.1  GI:28414507
KEYWORDS    JP 2002238588-A/14.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS     Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
TITLE       Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
JOURNAL     Patent: JP 2002238588-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT     OS   Homo sapiens (human)
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            PD   27-AUG-2002
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Qy    181  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGTGCTCAGGCACCT  233
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Db    612  TGCTGTTTCCATGGCCCAGCATTCCACCCTTAACCCTGTGCTCAGGCACCT  664
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RESULT 10
AY358912
LOCUS   AY358912   960 bp   mRNA   linear   PRI 03-OCT-2003
DEFINITION   Homo sapiens clone DNA34435 prostate stem cell A (UNQ206) mRNA,
             partial cds.
ACCESSION   AY358912
VERSION   AY358912.1 GI:37182941
KEYWORDS   FLI_CDNA.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS   Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
             Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B.,
             Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.E.,
             Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S.,
             Lee,J., Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C.,
             Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V.,
             Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieand,D., Woods,K.,
             Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
             Goddard,A., Wood,W.I. and Godowski,P.
TITLE   The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
             Effort to Identify Novel Human Secreted and Transmembrane Proteins:
             A Bioinformatics Assessment
JOURNAL   Genome Res. 13 (10), 2265-2270 (2003)
PUBMED   12975309
REFERENCE   2 (bases 1 to 960)
AUTHORS   Clark,H.F.
TITLE   Direct Submission
JOURNAL   Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
             Inc., 1 DNA Way, South San Francisco, CA 94080, USA
FEATURES   Location/Qualifiers
     source   1..960
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="DNA34435"
     <1..960
                     /locus_tag="UNQ206"
     CDS   <1..361
                     /locus_tag="UNQ206"
                     /note="PRO232"
                     /codon_start=2
                     /product="prostate stem cell A"
                     /protein_id="AAQ89271.1"
                     /db_xref="GI:37182942"
                     /translation="LLALLMAGLALQPGTALLCYSKAQVSNEDCLQVENCTQLGEQC
                     WTARIRAVGLLTVISKGCSLNCVDDSQDYYVGKKNITCCDTDLCNASGAHALQPAAAI
                     LALLPALGLLLWGPGQL"

ORIGIN
Query Match   99.6%; Score 232; DB 9; Length 960;
Best Local Similarity 99.6%; Pred. No. 1.2e-47;
Matches 232; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   1 CTGGCCCAGTGGGAGCCTGTCCTGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 432 CTGGCCCAGTGGGAGCCTGTCCTGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy   61 TATGTCTGCNCCCCTGTCCCCCACCCTGACCCTCTCCAGGACTCCACC 120
             ||||||||| |||||||||||||||||||||||||||||||||||||
Db 492 TATGTCTGCACCCCTGTCCCCCACCCTGACCCTCTCCAGGACTCCACC 551

Qy 121 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTGC 180
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```

---

AUTHORS    Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
           Yuan,J.
TITLE      Secretory and transmembrane polypeptide and nucleic acid encoding
           the same
JOURNAL    Patent: JP 2002253280-A 14 10-SEP-2002;
           GENENTECH INC
COMMENT    OS  Homo sapiens (human)
           PN  JP 2002253280-A/14
           PD  10-SEP-2002
           PF  18-DEC-2001 JP 2001385319
           PR  17-SEP-1997 US  60/059115,17-SEP-1997 US  60/059184 PR
           17-SEP-1997 US  60/059122,17-SEP-1997 US  60/059117 PR
           17-SEP-1997 US  60/059113,17-SEP-1997 US  60/059121 PR
           17-SEP-1997 US  60/059119,18-SEP-1997 US  60/059263 PR
           18-SEP-1997 US  60/059266,15-OCT-1997 US  60/062125 PR
           17-OCT-1997 US  60/062287,17-OCT-1997 US  60/062285 PR
           21-OCT-1997 US  60/062816,24-OCT-1997 US  60/062816 PR
           24-OCT-1997 US  60/063814,24-OCT-1997 US  60/063127 PR
           24-OCT-1997 US  60/063120,24-OCT-1997 US  60/063121 PR
           24-OCT-1997 US  60/063045,27-OCT-1997 US  60/063128 PR
           27-OCT-1997 US  60/063329,27-OCT-1997 US  60/063327 PR
           28-OCT-1997 US  60/063549,28-OCT-1997 US  60/063541 PR
           28-OCT-1997 US  60/063550,28-OCT-1997 US  60/063542 PR
           28-OCT-1997 US  60/063544,28-OCT-1997 US  60/063564 PR
           29-OCT-1997 US  60/063734,29-OCT-1997 US  60/063738 PR
           29-OCT-1997 US  60/063704,29-OCT-1997 US  60/063435 PR
           29-OCT-1997 US  60/064215,29-OCT-1997 US  60/063735 PR
           29-OCT-1997 US  60/063732,31-OCT-1997 US  60/064103 PR
           31-OCT-1997 US  60/063870,03-NOV-1997 US  60/064248 PI
           07-NOV-1997 US  60/064809,12-NOV-1997 US  60/065186 PR
           17-NOV-1997 US  60/065846,18-NOV-1997 US  60/065693 PR
           21-NOV-1997 US  60/066120,21-NOV-1997 US  60/066364 PR
           24-NOV-1997 US  60/066772,24-NOV-1997 US  60/066466 PR
           24-NOV-1997 US  60/066770,24-NOV-1997 US  60/066511 PR
           24-NOV-1997 US  60/066453,25-NOV-1997 US  60/066840 PI
           WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
           JIAN ZHENG,
           PI    JEAN YUAN
           PC    C12N15/09,A61K45/00,A61P1/00,A61P13/12,A61P17/00,A61P17/06, PC
           A61P25/00,
           PC    A61P25/16,A61P25/28,A61P31/12,A61P35/00,C07K14/47,C07K16/18,
           PC    C07K19/00,
           PC    C12N1/19,C12N1/21,C12N5/10//A61K38/00,A61K39/395,A61K39/395,
           PC    A61P43/00,
           PC    C12P21/08,(C12N1/19,C12R1:645),(C12N1/21,C12R1:19),(C12N5/10,
           PC    C12R1:91)
           PC    C12N15/00,C12N5/00,A61K37/02,(C12N5/00,C12R1:91) CC
           PC    C12N15/00,C12N5/00,A61K37/02,(C12N5/00,C12R1:91) CC
           Secretory and transmembrane polypeptide and nucleic acid    CC
           encoding the same
FH  Key             Location/Qualifiers
FT  source          1..960
FT                  /organism='Homo sapiens (human)'.
                    /organism="Homo sapiens"
                    /mol_type="genomic DNA"
                    /db_xref="taxon:9606"

ORIGIN
Query Match     99.6%;  Score 232;  DB 6;  Length 960;
Best Local Similarity  99.6%;  Pred. No. 1.2e-47;
Matches  232;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy    1  CTGGCCCAGTGGGAGCCTGTCCTGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  60
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Db  432  CTGGCCCAGTGGGAGCCTGTCCTGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  491

Qy   61  TATGTCTGCNCCCCTGTCCCCCACCCTGACCCTCTCCAGGACTCCACC  120
             ||||||||| |||||||||||||||||||||||||||||||||||||
Db  492  TATGTCTGCACCCCTGTCCCCCACCCTGACCCTCTCCAGGACTCCACC  551

Qy  121  CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTGC  180
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Db    552  CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCTGC  611

Qy    181  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  233

Db    612  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  664
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RESULT 11
BD076397

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LOCUS       BD076397               979 bp    DNA     linear   PAT 27-AUG-2002
DEFINITION  Human protein having transmembrane domain and DNA encoding the
            same.
ACCESSION   BD076397
VERSION     BD076397.1  GI:22622000
KEYWORDS    JP 2001519154-A/11.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 979)
AUTHORS     Kato,S., Kimura,T., Sekine,S. and Kobayashi,M.
TITLE       Human protein having transmembrane domain and DNA encoding the same
JOURNAL     Patent: JP 2001519154-A 11 23-OCT-2001;
            SAGAMI CHEMICAL RESEARCH CENTER, PROTEGENE INC
COMMENT     OS   Homo sapiens (human)
            PN   JP 2001519154-A/11
            PD   23-OCT-2001
            PF   05-OCT-1998 JP 2000515001
            PI   SEISHI KATO,TOMOKO KIMURA,SHINGO SEKINE,MIDORI KOBAYASHI PC
            C12N15/09,C07K14/47,C12N5/10,C12N15/00,C12N15/00 CC   Human protein
            having transmembrane domain
            and DNA encoding the
            CC   same
            FH   Key             Location/Qualifiers
            FT   source          1..979
            FT                   /organism='Homo sapiens (human)'
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Query Match          99.6%;  Score 232;  DB 6;  Length 979;
Best Local Similarity 99.6%;  Pred. No. 1.2e-47;
Matches 232;  Conservative 0;  Mismatches 1;  Indels 0;  Gaps 0;

Qy    1   CTGGCCAGTGGGAGCCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG   60
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Db    458 CTGGCCAGTGGGAGCCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG   517

Qy    61  TATGTCTGCNCCCCTGTCCCCCACCCTGACCCTCCCATGGCCCTTCCAGGACTCCCACC   120
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Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCTGC  180
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Db    578 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCTGC  637

Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  233
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Db    638 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  690
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RESULT 12
BC023582

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LOCUS       BC023582              1015 bp    mRNA    linear   PRI 19-DEC-2003
DEFINITION  Homo sapiens prostate stem cell antigen, mRNA (cDNA clone MGC:22972
            IMAGE:4840974), complete cds.
ACCESSION   BC023582
VERSION     BC023582.2  GI:40225653
KEYWORDS    MGC.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 1015)
AUTHORS     Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G.,
            Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D.,
            Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,
            Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F.,
            Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,
            Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L.,
            Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S.,
            Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J.,
            Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J.,
            McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S.,
            Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W.,
            Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A.,
            Fahey,J., Helton,E., Kettenan,M., Madan,A., Rodrigues,S.,
            Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y.,
            Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D.,
            Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M.,
            Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smailus,D.E.,
            Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
TITLE       Generation and initial analysis of more than 15,000 full-length
            human and mouse cDNA sequences
JOURNAL     Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
REFERENCE   2  (bases 1 to 1015)
AUTHORS     Strausberg,R.
TITLE       Direct Submission
JOURNAL     Submitted (05-FEB-2002) National Institutes of Health, Mammalian
            Gene Collection (MGC), Cancer Genomics Office, National Cancer
            Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
            USA
REMARK      NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT     On Dec 19, 2003 this sequence version replaced gi:23958165.
            Contact: MGC help desk
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC/DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC),
            Gaithersburg, Maryland;
            Web site: http://www.nisc.nih.gov
            Contact: nisc_mgc@nhgri.nih.gov
            Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
            Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
            Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
            Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
            Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
            McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
            Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
            Young,A., Zhang,L.-H. and Green,E.D.
            Clone distribution: MGC clone distribution information can be found
            through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
            Series: IRAL Plate: 33 Row: m Column: 19
            This clone was selected for full length sequencing because it
            passed the following selection criteria: matched mRNA gi: 531994.
FEATURES             Location/Qualifiers
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                     /clone="MGC:22972 IMAGE:4840974"
                     /tissue_type="Skin, melanotic melanoma, high MDR."
                     /lab_host="DH10B-R"
                     /note="Vector: pOTB7"
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                     /db_xref="LocusID:8000"
                     /db_xref="MIM:602470"
     CDS             7..378
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                /product="prostate stem cell antigen"
                /protein_id="AAH23582.1"
                /db_xref="GI:4025654"
                /db_xref="LocusID:8000"
                /db_xref="MIM:602470"
                /translation="MKAVLLALLMAGLALQPGTALLCYSCKAQVSNEDCLQVENCTQL
                GEQCWTARRAVGLLTVISKGCSLNCVDDSQDYYVGKKNITCCDTDLCNASGAHALQP
                AAILALLPALGLLLWGPGQL"
     misc_feature   67..288
                /gene="PSCA"
                /note="UPAR_LY6; Region: u-PAR/Ly-6 domain. This
                extracellular disulphide bond rich domain is related to
                pfam00087"
                /db_xref="CDD:pfam00021"

ORIGIN

Query Match         99.6%;    Score 232;  DB 9;  Length 1015;
Best Local Similarity  99.6%;    Pred. No.1 1.2e-47;
Matches 232;   Conservative   0;  Mismatches  1;  Indels   0;  Gaps     0;

Qy     1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGGAGGCACATCCTAACGCAAGTCTGACCATG  60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   449 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGGAGGCACATCCTAACGCAAGTCTGACCATG 508

Qy    61 TATGTCTGCNCCCCTGTCCCCACCTGACCCCTCCATGGCCCTCTCCAGGACTCCCACC 120
           |||||||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db   509 TATGTCTGCACCCCTGTCCCCACCTGACCCCTCCATGGCCCTCTCCAGGACTCCCACC 568

Qy   121 CGGCAGATCAGTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTCTGC 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   569 CGGCAGATCAGTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTCTGC 628

Qy   181 TGCTGTTCCATGGCCCAGCATTCTCCACCCCTTAACCCTGTGTCTCAGGCACCT 233
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   629 TGCTGTTCCATGGCCCAGCATTCTCCACCCCTTAACCCTGTGTCTCAGGCACCT 681
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Qy      121  CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTGTGCTGCTCAGGCACCT  180

Db     20387  CGGCAGATCAGCTCTAGTGACACAGATCGCCCTGCAGATGGCCCTCCAACCCTCTCTGC  20446

Qy      181  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  233

Db     20447  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  20499
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RESULT 14
AX014148
LOCUS   AX014148   758 bp   DNA   linear   PAT 07-SEP-2000
DEFINITION   Sequence 16 from Patent WO9954447.
ACCESSION   AX014148
VERSION   AX014148.1   GI:10040595
KEYWORDS   .
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS   Schmitt,A., Specht,T., Dahl,E., Hinzmann,B., Rosenthal,A. and
             Pilarsky,C.
TITLE   Human nucleic acid sequences of bladder tumour tissue
JOURNAL   Patent: WO 9954447-A 16 28-OCT-1999;
             SCHMITT ARMIN (DE); SPECHT THOMAS (DE); DAHL EDGAR (DE); HINZMANN
             BERND (DE); ROSENTHAL ANDRE (DE); METAGEN GES FUER GENOMFORSCHUN
             (DE); PILARSKY CHRISTIAN (DE) .
FEATURES   Location/Qualifiers
     source   1..758
                     /organism="Homo sapiens"
                     /mol_type="unassigned DNA"
                     /db_xref="taxon:9606"
ORIGIN

Query Match   98.9%; Score 230.4; DB 6; Length 758;
Best Local Similarity   99.1%; Pred. No. 3.2e-47;
Matches   231; Conservative   0; Mismatches   2; Indels   0; Gaps   0;

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Qy        1  CTGGCCCAGTGGGAGCCGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  60
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Qy       61  TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCAGGACTCCCACC  120
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Db      285  TATGTCTGCACCCCTGTCCCCACCCTGACCCTCCAGGACTCCCACC  344

Qy      121  CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTGTGCTGCTCAGGCACCT  180
             ||||||||||||||||||||||||||||  |||||||||||||||||||||| 
Db      345  CGGCAGATCAGCTCTAGTGACACAGATCGCCTGCAGATCGCCCTGCGAGATGGCCCTGCTGC  404

Qy      181  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  233
             |||||||||||||||||||||||||||||||||||||||||||||||
Db      405  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  457
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RESULT 15
BD205056
LOCUS   BD205056   758 bp   DNA   linear   PAT 17-JUL-2003
DEFINITION   Human nucleic acid sequence originating in cystic cancer tissue.
ACCESSION   BD205056
VERSION   BD205056.1   GI:33014826
           JP 2002512023-A/10.
KEYWORDS   .
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 758)
AUTHORS   Specht,T., Hinzmann,B., Schmitt,A., Pilarsky,C., Dahl,E. and
             Rosenthal,A.
TITLE   Human nucleic acid sequence originating in cystic cancer tissue
JOURNAL   Patent: JP 2002512023-A 10 23-APR-2002;

COMMENT   METAGEN GESELLSCHAFT FUER GENOM FORSCHUNG MBH
OS   Homo sapiens (human)
PN   JP 2002512023-A/10
PD   23-APR-2002
PF   15-APR-1999 JP 2000544779
PR   21-APR-1998 DE 198 18 619.3
PI   THOMAS SPECHT,BERND HINZMANN,ARMIN SCHMITT,CHRISTIAN PILARSKY,
PI   EDGAR DAHL,
PI   ANDRE ROSENTHAL
PC   C12N15/09,A61K38/00,A61K39/395,A61K48/00,A61P13/10,
PC   A61P35/00,
PC   C07K14/47,C07K16/18,C12N5/10,C12P21/02,C12P21/08,C12Q1/68, PC
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PC   A61K37/02,C12N5/00
CC   Human nucleic acid sequence originating in cystic cancer CC
     tissue

FH   Key   Location/Qualifiers
FT   source   1..758
FT   /organism="Homo sapiens (human)' .

FEATURES   Location/Qualifiers
     source   1..758
                     /organism="Homo sapiens"
                     /mol_type="genomic DNA"
                     /db_xref="taxon:9606"
ORIGIN

Query Match   98.9%; Score 230.4; DB 6; Length 758;
Best Local Similarity   99.1%; Pred. No. 3.2e-47;
Matches   231; Conservative   0; Mismatches   2; Indels   0; Gaps   0;

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Qy        1  CTGGCCCAGTGGGAGCCGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  60
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Db      225  CTGGCCCAGTGGGAGCCGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  284

Qy       61  TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCAGGACTCCCACC  120
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Db      285  TATGTCTGCACCCCTGTCCCCACCCTGACCCTCCAGGACTCCCACC  344

Qy      121  CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATCCGCGTGCAGATGGCCCTCTCTGC  180
             |||||||||||||||||||||||||||   |||||||||  ||||||||||||||||||
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Qy      181  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  233
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Search completed: September 18, 2004, 13:27:10
Job time : 1168.74 secs

Blank Sheet

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                GenCore version 5.1.6
        Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:   September 18, 2004, 04:33:41 ; Search time 152.315 Seconds
                                         (without alignments)
                          6498.587 Million cell updates/sec

Title:         US-09-079-874-7
Perfect score: 233
Sequence:      1 CTCGCCAGTGGGAGCCTGT.........AACCCTGTGCTCAGGCACCT 233

Scoring table: IDENTITY_NUC
               Gapop 10.0 , Gapext 1.0

Searched:      3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters:        6747726

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :     N_Geneseq_29Jan04:*
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                2: geneseqn1990s:*
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                8: geneseqn2003bs:*
                9: geneseqn2003cs:*
               10: geneseqn2004s:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	232	99.6	232	2	AAV80392	Aav80392 Nucleotid
2	232	99.6	233	2	AAV68609	Aav68609 Human PS1
3	232	99.6	960	2	AAX52217	Aaxs2217 Protein P
4	232	99.6	960	3	ADC78337	Adc78337 Human PRO
5	232	99.6	960	4	AAF72375	Aaf72375 Human PRO
6	232	99.6	960	6	ABK40257	Abk40257 cDNA enco
7	232	99.6	960	7	ACA58909	Aca58909 Human PRO
8	232	99.6	960	7	ACA58306	Aca58306 cDNA enco
9	232	99.6	960	7	ACA60013	Aca60013 Human cDN
10	232	99.6	960	7	ACD07413	Acd07413 Novel hum
11	232	99.6	960	7	ABX71461	Abx71461 Human cDN
12	232	99.6	960	7	ACH06793	Ach06793 Human sec
13	232	99.6	960	7	ABX96030	Abx96030 Human sec
14	232	99.6	960	7	ACA05351	Aca05351 cDNA enco
15	232	99.6	960	7	ACD20018	Acd20018 Human sec
16	232	99.6	960	8	ACA54821	Aca54821 Novel hum
17	232	99.6	960	8	ACD19656	Acd19656 Human sec
18	232	99.6	960	8	ADB29222	Adb29222 Human sec
19	232	99.6	960	8	ADA18078	Ada18078 Human sec
20	232	99.6	960	8	ACD66803	Acd66803 Human cDN
21	232	99.6	960	8	ACD82964	Acd82964 Human PRO
22	232	99.6	960	8	ADA16053	Ada16053 Human sec
23	232	99.6	960	8	ADA42198	Ada42198 Human sec
24	232	99.6	960	8	ACD23142	Acd23142 Human PRO
25	232	99.6	960	8	ADA16477	Ada16477 Human sec
26	232	99.6	960	8	ADA12906	Ada12906 Human sec
27	232	99.6	960	8	ADA41774	Ada41774 Human sec
28	232	99.6	960	8	ADA17121	Ada17121 Human sec
29	232	99.6	960	8	ADA42624	Ada42624 Human sec
30	232	99.6	960	8	ACD23504	Acd23504 Human PRO
31	232	99.6	960	8	ADB77543	Adb77543 Human sec
32	232	99.6	960	9	ADB74679	Adb74679 Human sec
33	232	99.6	960	9	ADC28325	Adc28325 Human sec
34	232	99.6	960	9	ADC39525	Adc39525 Human sec
35	232	99.6	960	9	ADC40039	Adc40039 Human sec
36	232	99.6	960	9	ADC18867	Adc18867 Human sec
37	232	99.6	960	9	ADC34163	Adc34163 Human sec
38	232	99.6	960	9	ADC29218	Adc29218 Human sec
39	232	99.6	960	9	ADC28749	Adc28749 Human sec
40	232	99.6	960	9	ADC40634	Adc40634 Human sec
41	232	99.6	960	9	ADC19291	Adc19291 Human sec
42	232	99.6	960	9	ADC33739	Adc33739 Human sec
43	232	99.6	960	9	ADC12809	Adc12809 Human sec
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ALIGNMENTS

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RESULT 1
AAV80392
ID   AAV80392 standard; DNA; 233 BP.
XX
AC   AAV80392;
XX
DT   23-FEB-1999  (first entry)
XX
DE   Nucleotide sequence of UT116 gene-specific clone 1901337.
XX
KW   UT116; urinary tract; epitope; antigen; detection; diagnosing;
KW   monitoring; in vivo imaging; cancer; agonist; antibody; tumour;
KW   metastasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO9851824-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;       98WO-US009972.
XX
PR   15-MAY-1997;       97US-00856652.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Granados EN;
PI   Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L, Russell JC;
PI   Stroupe SD;
XX
DR   WPI; 1999-045237/04.
XX
PT   New method for detecting diseases of the urinary tract - comprises use of
PT   a UT116 polynucleotide, protein or antibodies, used for preventing and
PT   treating urinary tract infections and cancer.
XX
PS   Claim 1; Fig 1A-C; 113pp; English.
XX
CC   Sequences AAV80386 to AAV80396 represent partially overlapping nucleotide
CC   sequences of the UT116 gene-specific clones derived from urinary tract
CC   tissue. The invention relates to a method of detecting the presence of a
CC   target UT116 polynucleotide in a test sample using these UT116-specific
CC   sequences. Host cells transfected with an expression vector containing
CC   the UT116 gene can be used to produce a UT116 polypeptide recombinantly.
CC   This polypeptide has at least one UT116 epitope which can be used in a
CC   method for detecting UT116 antigen in a test sample. The polynucleotides
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CC   and polypeptides are useful for detecting, diagnosing, monitoring,
CC   staging, prognosticating, in vivo imaging, preventing, treating or
CC   determining the predisposition of a subject to diseases and conditions of
CC   the urinary tract, such as urinary tract cancer. Antibodies specifically
CC   binding to an epitope of UT116 antigen, and agonists are useful for
CC   treating urinary tract diseases, tumours and metastases
XX
SQ   Sequence 233 BP; 38 A; 96 C; 47 G; 51 T; 0 U; 1 Other;

Query Match             99.6%;  Score 232;  DB 2;  Length 233;
Best Local Similarity  100.0%;  Pred. No. 4.4e-54;
Matches 233;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy    1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
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Db    1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60

Qy   61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACC 120
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Qy  121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGC 180
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Qy  181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
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Db  181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233

RESULT 2
AAV68609
ID   AAV68609 standard; cDNA; 233 BP.
XX
AC   AAV68609;
XX
DT   16-MAR-1999  (first entry)
XX
DE   Human PS116 EST clone 1901337.
XX
KW   Human; expressed sequence tag; EST; prostate disease; diagnosis; tumour;
KW   detection; therapy; prostate cancer; metastasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO9851805-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;  98WO-US010041.
XX
PR   15-MAY-1997;  97US-00856653.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA,  Cohen M,  Colpitts TL,  Friedman PN,  Gordon J;
PI   Granados EN,  Hodges SC,  Klass MR,  Kratochvil JD,  Roberts-Rapp L;
PI   Russell JC,  Stroupe SD;
XX
DR   WPI; 1999-045234/04.
XX
PT   New method for detecting diseases of the prostate - comprises use of a
PT   PS116 polynucleotide, protein or antibodies, useful for preventing and
PT   treating prostate infections and cancer.
XX
PS   Claim 1; Page 93; 118pp; English.
XX
CC   This sequence represents an expressed sequence tag (EST) clone of the
CC   PS116 gene isolated from a human prostate tissue library. This sequence
CC   can be used in the method of the invention for detecting a target PS116
CC   polynucleotide (PN), that comprises: contacting a sample with at least 1
CC   PS116-specific PN or complement; and detecting the target PS116 PN, where
CC   the specific PN has at least 50% identity with this sequence. The PNs,
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CC   PSl16 polypeptides or PSl16 amplicons are used to detect prostate
CC   disease. Antibodies (ABs) against PSl16 are used in assay kits to detect
CC   PSl16 antigen or anti-PSl16 Ab, and the Abs are preferably attached to a
CC   solid phase. The polypeptides are used for detecting PSl16-specific Abs
CC   in a sample, and for producing Abs after immunising a subject. Plasmids
CC   encoding PSl16 epitopes can also be administered to a subject to obtain
CC   Abs. The cDNAs and polypeptides are useful for detecting, diagnosing,
CC   staging, monitoring, prognosticating, in vivo imaging, preventing,
CC   treating or determining the predisposition of a subject to diseases and
CC   conditions of the prostate, such as prostate cancer. The Abs and agonists
CC   or inhibitors are useful for treating prostate diseases, tumours and
CC   metastases
XX
SQ   Sequence 233 BP; 38 A; 96 C; 47 G; 51 T; 0 U; 1 Other;

Query Match             99.6%;  Score 232;  DB 2;  Length 233;
Best Local Similarity  100.0%;  Pred. No. 4.4e-54;
Matches 233;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy    1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
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Qy   61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACC 120
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Db   61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACC 120

Qy  121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGC 180
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Db  121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGC 180

Qy  181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
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Db  181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233

RESULT 3
AAX52217
ID   AAX52217 standard; DNA; 960 BP.
XX
AC   AAX52217;
XX
DT   25-JUN-1999  (first entry)
XX
DE   Protein PRO232 cDNA clone DNA34435-1140.
XX
KW   Secreted protein; transmembrane protein; human; enterocolitis;
KW   Zollinger-Ellison syndrome; gastrointestinal ulceration;
KW   congenital microvillus atrophy; skin disease; cell growth;
KW   abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW   Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
KW   dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;
KW   wound healing; tissue repair; ss.
XX
OS   Homo sapiens.
XX
PN   WO9914328-A2.
XX
PD   25-MAR-1999.
XX
PF   16-SEP-1998;  98WO-US019330.
XX
PR   17-SEP-1997;  97US-0059113P.
PR   17-SEP-1997;  97US-0059115P.
PR   17-SEP-1997;  97US-0059117P.
PR   17-SEP-1997;  97US-0059119P.
PR   17-SEP-1997;  97US-0059121P.
PR   17-SEP-1997;  97US-0059122P.
PR   17-SEP-1997;  97US-0059184P.
PR   18-SEP-1997;  97US-0059263P.
PR   18-SEP-1997;  97US-0059266P.
PR   15-OCT-1997;  97US-0062125P.
PR   17-OCT-1997;  97US-0062285P.
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PR   17-OCT-1997;  97US-0062287P.
PR   21-OCT-1997;  97US-0063486P.
PR   24-OCT-1997;  97US-0062614P.
PR   24-OCT-1997;  97US-0062816P.
PR   24-OCT-1997;  97US-0063045P.
PR   24-OCT-1997;  97US-0063120P.
PR   24-OCT-1997;  97US-0063121P.
PR   24-OCT-1997;  97US-0063127P.
PR   24-OCT-1997;  97US-0063128P.
PR   27-OCT-1997;  97US-0063327P.
PR   27-OCT-1997;  97US-0063329P.
PR   28-OCT-1997;  97US-0063541P.
PR   28-OCT-1997;  97US-0063542P.
PR   28-OCT-1997;  97US-0063544P.
PR   28-OCT-1997;  97US-0063549P.
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PR   28-OCT-1997;  97US-0063564P.
PR   29-OCT-1997;  97US-0063435P.
PR   29-OCT-1997;  97US-0063704P.
PR   29-OCT-1997;  97US-0063732P.
PR   29-OCT-1997;  97US-0063734P.
PR   29-OCT-1997;  97US-0063735P.
PR   29-OCT-1997;  97US-0063738P.
PR   29-OCT-1997;  97US-0064215P.
PR   31-OCT-1997;  97US-0063870P.
PR   31-OCT-1997;  97US-0064103P.
PR   03-NOV-1997;  97US-0064248P.
PR   07-NOV-1997;  97US-0064809P.
PR   12-NOV-1997;  97US-0065186P.
PR   17-NOV-1997;  97US-0065846P.
PR   18-NOV-1997;  97US-0065593P.
PR   21-NOV-1997;  97US-0066120P.
PR   21-NOV-1997;  97US-0066364P.
PR   24-NOV-1997;  97US-0066453P.
PR   24-NOV-1997;  97US-0066466P.
PR   24-NOV-1997;  97US-0066511P.
PR   24-NOV-1997;  97US-0066770P.
PR   24-NOV-1997;  97US-0066772P.
PR   25-NOV-1997;  97US-0066840P.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
XX
DR   WPI; 1999-229533/19.
DR   P-PSDB; AAY13347.
XX
PT   New isolated human genes and polypeptides used in, e.g. treatment of
PT   gastrointestinal ulceration.
XX
PS   Claim 2; Fig 8; 320pp; English.
XX
CC   AAXS2213-74 encode secreted and transmembrane human proteins, and are
CC   obtained from cDNA libraries, prepared from fetal lung, fetal kidney,
CC   fetal brain, fetal liver and fetal retina. The encoded polypeptides have
CC   specific uses based on their homology to known polypeptides, e.g. PRO211
CC   and PRO217 can be used for disorders associated with the preservation and
CC   maintenance of gastrointestinal mucosa and the repair of acute and
CC   chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome,
CC   gastrointestinal ulceration and congenital microvillus atrophy), skin
CC   diseases associated with abnormal keratinocyte differentiation (e.g.
CC   psoriasis, epithelial cancers such as lung squamous cell carcinoma of the
CC   vulva and gliomas), potent effects on cell growth and development,
CC   diseases related to growth or survival of nerve cells including
CC   Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer.
CC   PRO265 can be used as for fibromodulin, e.g. for reducing dermal
CC   scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may
CC   be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can
CC   have therapeutic applications in wound healing and tissue repair; PRO317
CC   can be used for treating problems of the kidney, uterus, endometrium,
CC   blood vessels, or related tissue, e.g. in the heart of genital tract
XX
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SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             99.6%;  Score 232;  DB 2;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 5.8e-54;
Matches  232;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
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Db        432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy         61 TATGTCTGCNCCCCTGCCCCTGACCCTCCCATGCCCCTTCCAGGACTCCCACC 120
              ||||||||| |||||| ||||||||||||||| ||||||| ||||||||||||
Db        492 TATGTCTGCACCCCTGTCCCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCCACC 551

Qy        121 CGGCAGATCAGCTCTAGTGACACAGATCGGCTGCAGATGGCCCCTGTCCAGGCACCT 180
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Db        552 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCCTCTCCAGGCACCT 611

Qy        181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
              |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664


RESULT 4
ADC78337
ID   ADC78337 standard; cDNA; 960 BP.
XX
AC   ADC78337;
XX
DT   01-JAN-2004 (first entry)
XX
DE   Human PRO232 cDNA.
XX
KW   antiinflamatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian;
KW   nootropic; neuroprotective; vasotropic; chemotaxic; angiogenic;
KW   neurotrophic; osteopathic; antiasthmatic; antiarthritic; antirheumatic;
KW   antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective;
KW   thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;
KW   gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;
KW   Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;
KW   nerve repair; thrombosis; bone; cartilage formation; angiogenesis;
KW   asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;
KW   atherosclerosis; cardiac injury; infertility; premature aging; AIDS;
KW   diabetes; stroke; gene therapy; transgenic; PRO; human; ss; gene.
XX
OS   Homo sapiens.
XX
PN   WO200015796-A2.
XX
PD   23-MAR-2000.
XX
PF   15-SEP-1999;    99WO-US021090.
PR   16-SEP-1998;    98WO-US019330.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;
PI   Yuan J;
XX
DR   WPI; 2000-271434/23.
DR   P-PSDB; ADC78338.
XX
PT   Novel nucleic acids encoding secreted and transmembrane polypeptides with
PT   homology, e.g. to growth and cancer-associated antigens.
XX
PS   Claim 2; SEQ ID NO 17; 355pp; English.
XX
CC   The invention relates to a novel nucleic acid encoding a PRO polypeptide.
CC   The polypeptides and polynucleotides of the invention may be useful as
CC   research tools and as therapeutics for treating enterocolitis, Zollinger-
CC   Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
CC   Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal
```

CC   scarring and wound healing, nerve repair, thrombosis, bone and/or
CC   cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
CC   sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
CC   infertility, premature aging, AIDS, diabetes complications and stroke.
CC   The molecules may also be utilised during gene therapy procedures and
CC   transgenic animal production. The current sequence is that of the human
CC   PRO cDNA of the invention.
XX
SQ   Sequence 960 BP; 182 A; 327 C; 274 G; 177 T; 0 U; 0 Other;

Query Match   99.6%; Score 232; DB 3; Length 960;
Best Local Similarity   99.6%; Pred. No. 5.8e-54;
Matches 232; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
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Db   432 CTGCCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy   61 TATGTCTGCNCCCCTGTCCCCACCCTCCCATGGGCCTCTCCAGGACTCCCACC 120
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Db   492 TATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCATGGGCCTCTCCAGGACTCCCACC 551

Qy   121 CGGCAGATCAGCTTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGC 180
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Db   552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGC 611

Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
            ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 5
AAF72375
ID   AAF72375 standard; cDNA; 960 BP.
XX
AC   AAF72375;
XX
DT   24-APR-2001 (first entry)
XX
DE   Human PRO232 cDNA.
XX
KW   Human; PRO; dermatological; antipsoriatic; antiinflammatory;
KW   antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
KW   antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
KW   antiarthrolic; antiinfertility; skin disease; gastrointestinal disorder;
KW   ophthalmological; gene therapy; antidiabetic; antiviral; diabetes;
KW   ischaemia; inflammation; expressed sequence tag; EST; ss.
XX
OS   Homo sapiens.
XX
PN   WO20010311-A1.
XX
PD   18-JAN-2001.
XX
PF   22-FEB-2000; 2000WO-US004414.
XX
PR   07-JUL-1999; 99US-0143048P.
PR   26-JUL-1999; 99US-0145698P.
PR   28-JUL-1999; 99US-0146222P.
PR   08-SEP-1999; 99WO-US020594.
PR   13-SEP-1999; 99WO-US020944.
PR   15-SEP-1999; 99WO-US021090.
PR   15-SEP-1999; 99WO-US021547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
PR   30-NOV-1999; 99WO-US028813.
PR   02-DEC-1999; 99WO-US028564.
PR   02-DEC-1999; 99WO-US028565.
PR   16-DEC-1999; 99WO-US030095.
PR   20-DEC-1999; 99WO-US030911.
PR   20-DEC-1999; 99WO-US030999.
PR   05-JAN-2000; 2000WO-US000219.
XX

PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI   Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI   Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin IJ;
PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI   Williams PM, Wood WI;
XX
DR   WPI; 2001-081051/09.
XX
PT   Sixty one nucleic acids encoding PRO polypeptides which are useful in the
PT   treatment of skin diseases (e.g. psoriasis) cancers (e.g. lung squamous
PT   cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
PT   disease).
XX
PS   Claim 2; Fig 8; 393pp; English.
XX
CC   The present sequence is an EST used to isolate one of sixty one nucleic
CC   acids encoding novel secreted and transmembrane PRO polypeptides. The PRO
CC   polypeptides are useful for treating skin diseases (e.g. psoriasis),
CC   cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders
CC   (e.g. enterocolitis), neurodegenerative diseases (e.g. Alzheimer's
CC   disease, Parkinson's disease), wound repair, cardiovascular disorders
CC   (e.g. endometrial bleeding angiogenesis, ischaemias such as coronary
CC   ischaemia, atherosclerosis) inflammatory disorders (e.g. asthma,
CC   rheumatoid arthritis, multiple sclerosis), infertility, AIDS and diabetes
CC   and retinal disorders such as retinitis pigmentosum. The PRO nucleic
CC   acids have applications in molecular biology, including use as
CC   hybridization probes, and in chromosome and gene mapping
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%; Score 232; DB 4; Length 960;
Best Local Similarity   99.6%; Pred. No. 5.8e-54;
Matches 232; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   1 CTGGCCCAGTGGGAGCCTGTCCTGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
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Db   432 CTGGCCCAGTGGGAGCCTGTCCTGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy   61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCCATGGGCCTCTCCAGGACTCCCACC 120
            |||||||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db   492 TATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCATGGGCCTCTCCAGGACTCCCACC 551

Qy   121 CGGCAGATCAGCTTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGC 180
            ||||||||||||| ||||||||||||||||||||||||||||||||||||||||||||||
Db   552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGC 611

Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
            ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 6
ABK40257
ID   ABK40257 standard; cDNA; 960 BP.
XX
AC   ABK40257;
XX
DT   15-JUL-2002 (first entry)
XX
DE   cDNA encoding human PRO232 polypeptide.
XX
KW   Human; PRO; benign tumour; malignant tumour; lymphoid malignancy;
KW   leukaemia; neuronal disorder; stromal disorder; blastocoelic disorder;
KW   inflammatory disorder; immune disorder; angiogenic disorder;
KW   gene therapy; cytostatic; neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   WO20015486-A1.
XX
PD   26-JUL-2001.

```
XX
PF   11-FEB-2000; 2000WO-US003565.
XX
PR   08-MAR-1999;    99WO-US005028.
PR   11-MAR-1999;    99US-0123972P.
PR   11-MAY-1999;    99US-0133459P.
PR   02-JUN-1999;    99WO-US012252.
PR   22-JUN-1999;    99US-0140650P.
PR   22-JUN-1999;    99US-0140653P.
PR   20-JUL-1999;    99US-0144758P.
PR   26-JUL-1999;    99US-0145698P.
PR   28-JUL-1999;    99US-0146222P.
PR   17-AUG-1999;    99US-0143395P.
PR   31-AUG-1999;    99US-0151689P.
PR   01-SEP-1999;    99WO-US020111.
PR   15-SEP-1999;    99WO-US021090.
PR   30-NOV-1999;    99US-028313.
PR   01-DEC-1999;    99WO-US028801.
PR   01-DEC-1999;    99WO-US028634.
PR   05-JAN-2000;    2000WO-US000219.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Hillan KJ;
PI   Marsters SA, Pan J, Pitti RM, Roy MA, Smith V, Stone DM;
PI   Watanabe CK, Wood WI;
XX
DR   WPI; 2002-205567/26.
DR   P-PSDB; AAU86131.
XX
PT   Thirty five nucleic acids encoding PRO polypeptides, useful for treating
PT   benign or malignant tumors, leukemias and lymphoid malignancies,
PT   inflammatory, angiogenic and immunologic disorders.
XX
PS   Claim 50; Fig 7; 302pp; English.
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides and the polynucleotide sequences encoding them. The PRO
CC   polypeptides, agonists, antagonists or anti-PRO antibodies are useful for
CC   treating benign or malignant tumours (e.g. renal, kidney, bladder,
CC   breast, etc), leukaemias and lymphoid malignancies, other disorders such
CC   as neuronal, glial, astrocytal, hypothalamic, glandular, macrophagal,
CC   stromal and blastocoelic disorders, inflammatory, immune and angiogenic
CC   disorders. The polynucleotide sequences are also useful in gene therapy.
CC   ABK40254-ABK40288 encode for the human PRO polypeptides of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             99.6%;  Score 232;  DB 6;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 5.8e-54;
Matches  232;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy      1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  60
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Db    432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy     61 TATGTCTGCNCCCCTGTCCCCCACCCTGACCCTCCCATGGCCCTCCAGGACTCCCACC  120
          |||||||||| |||||||||||||||||||||||||||||||||||||||||||||||||
Db    492 TATGTCTGCACCCCTGTCCCCCACCCTGACCCTCCCATGGCCCTCCAGGACTCCCACC  551

Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCTGC 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCTGC 611

Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664


RESULT 7
ACA58909
ID   ACA58909 standard; cDNA; 960 BP.
XX
AC   ACA58909;
XX
DT   16-JUN-2003  (first entry)
XX
DE   Human PRO polynucleotide #4.
XX
KW   Human; PRO; gene; ss; secreted polypeptide; transmembrane polypeptide;
KW   pathological disorder; cardiac insufficiency disorder; protein secretion;
KW   pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
KW   skin disease; keratinocyte differentiation; epithelial cancer; tumour;
KW   lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
KW   cytostatic; cardiant; endocrine; antidiabetic; gastrointestinal;
KW   antiulcer; dermatological; vulnerary.
XX
OS   Homo sapiens.
XX
PN   US2002146709-A1.
XX
PD   10-OCT-2002.
XX
PF   18-JUL-2001; 2001US-00909088.
XX
PR   17-SEP-1997;    97US-0059113P.
PR   17-SEP-1997;    97US-0059115P.
PR   17-SEP-1997;    97US-0059117P.
PR   17-SEP-1997;    97US-0059119P.
PR   17-SEP-1997;    97US-0059121P.
PR   17-SEP-1997;    97US-0059122P.
PR   17-SEP-1997;    97US-0059184P.
PR   18-SEP-1997;    97US-0059263P.
PR   18-SEP-1997;    97US-0059266P.
PR   15-OCT-1997;    97US-0062125P.
PR   17-OCT-1997;    97US-0062285P.
PR   17-OCT-1997;    97US-0062287P.
PR   21-OCT-1997;    97US-0063486P.
PR   24-OCT-1997;    97US-0062814P.
PR   24-OCT-1997;    97US-0062816P.
PR   24-OCT-1997;    97US-0063045P.
PR   24-OCT-1997;    97US-0063120P.
PR   24-OCT-1997;    97US-0063121P.
PR   24-OCT-1997;    97US-0063127P.
PR   24-OCT-1997;    97US-0063128P.
PR   27-OCT-1997;    97US-0063327P.
PR   27-OCT-1997;    97US-0063329P.
PR   28-OCT-1997;    97US-0063541P.
PR   28-OCT-1997;    97US-0063542P.
PR   28-OCT-1997;    97US-0063544P.
PR   28-OCT-1997;    97US-0063549P.
PR   28-OCT-1997;    97US-0063550P.
PR   28-OCT-1997;    97US-0063564P.
PR   29-OCT-1997;    97US-0063435P.
PR   29-OCT-1997;    97US-0063704P.
PR   29-OCT-1997;    97US-0063732P.
PR   29-OCT-1997;    97US-0063734P.
PR   29-OCT-1997;    97US-0063735P.
PR   29-OCT-1997;    97US-0063738P.
PR   29-OCT-1997;    97US-0064215P.
PR   31-OCT-1997;    97US-0063870P.
PR   31-OCT-1997;    97US-0064103P.
PR   03-NOV-1997;    97US-0064248P.
PR   07-NOV-1997;    97US-0064809P.
PR   12-NOV-1997;    97US-0065186P.
PR   17-NOV-1997;    97US-0065846P.
PR   18-NOV-1997;    97US-0065693P.
PR   21-NOV-1997;    97US-0066120P.
PR   21-NOV-1997;    97US-0066364P.
PR   24-NOV-1997;    97US-0066453P.
PR   24-NOV-1997;    97US-0066466P.
PR   24-NOV-1997;    97US-0066511P.
PR   24-NOV-1997;    97US-0066770P.
PR   24-NOV-1997;    97US-0066772P.
PR   10-SEP-1998;    98WO-US018824.
PR   14-SEP-1998;    98WO-US019177.
XX
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Db     492  TATGTCTTGCACCCCTGTCCCCACCCCTGACCCTGACCCTGGCCCTCTCCAGGACTCCCACC  551
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Qy     121  CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTGC  180
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Db     552  CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTGC  611

Qy     181  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTCTCAGGCACCT  233
                  |||||||||||||||||||||||||||||||||||||||||||||||||||

Db     612  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTCTCAGGCACCT  664
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RESULT 8
ACA58306
ID   ACA58306 standard; cDNA; 960 BP.
XX
AC   ACA58306;
XX
DT   10-JUN-2003 (first entry)
XX
DE   cDNA encoding human PRO polypeptide #4.
XX
KW   Human; secreted and transmembrane protein; PRO polypeptide; cancer;
KW   Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic;
KW   neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2002192659-A1.
XX
PD   19-DEC-2002.
XX
PF   10-JUL-2001; 2001US-00902853.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
PR   17-SEP-1997; 97US-0059121P.
PR   17-SEP-1997; 97US-0059122P.
PR   17-SEP-1997; 97US-0059184P.
PR   18-SEP-1997; 97US-0059263P.
PR   18-SEP-1997; 97US-0059266P.
PR   15-OCT-1997; 97US-0062125P.
PR   17-OCT-1997; 97US-0062285P.
PR   17-OCT-1997; 97US-0062287P.
PR   21-OCT-1997; 97US-0063486P.
PR   24-OCT-1997; 97US-0062816P.
PR   24-OCT-1997; 97US-0062816P.
PR   24-OCT-1997; 97US-0063045P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063128P.
PR   27-OCT-1997; 97US-0063327P.
PR   27-OCT-1997; 97US-0063329P.
PR   28-OCT-1997; 97US-0063541P.
PR   28-OCT-1997; 97US-0063542P.
PR   28-OCT-1997; 97US-0063544P.
PR   28-OCT-1997; 97US-0063549P.
PR   28-OCT-1997; 97US-0063550P.
PR   29-OCT-1997; 97US-0063564P.
PR   29-OCT-1997; 97US-0063435P.
PR   29-OCT-1997; 97US-0063704P.
PR   29-OCT-1997; 97US-0063732P.
PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064248P.
PR   07-NOV-1997; 97US-0064809P.
PR   12-NOV-1997; 97US-0065186P.
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PR   16-SEP-1998;  98WO-US019330.
PR   17-SEP-1998;  98WO-US019437.
PR   01-DEC-1998;  98WO-US025108.
PR   08-SEP-1999;  99WO-US020594.
PR   13-SEP-1999;  99WO-US020944.
PR   15-SEP-1999;  99WO-US021090.
PR   15-SEP-1999;  99WO-US021547.
PR   05-OCT-1999;  99WO-US023089.
PR   29-NOV-1999;  99WO-US028214.
PR   30-NOV-1999;  99WO-US028311.
PR   01-DEC-1999;  99WO-US028301.
PR   02-DEC-1999;  99WO-US028564.
PR   02-DEC-1999;  99WO-US028565.
PR   16-DEC-1999;  99WO-US030095.
PR   20-DEC-1999;  99WO-US030911.
PR   20-DEC-1999;  99WO-US030999.
PR   05-JAN-2000;  2000WO-US000219.
PR   11-FEB-2000;  2000WO-US003565.
PR   22-FEB-2000;  2000WO-US004414.
PR   24-FEB-2000;  2000WO-US005004.
PR   02-MAR-2000;  2000WO-US005841.
PR   20-MAR-2000;  2000WO-US007377.
PR   30-MAR-2000;  2000WO-US008439.
PR   22-MAY-2000;  2000WO-US014042.
PR   02-JUN-2000;  2000WO-US015264.
PR   28-JUL-2000;  2000WO-US020710.
PR   24-AUG-2000;  2000WO-US023328.
PR   18-SEP-2000;  2000US-00665350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-328338/31.
DR   P-PSDB; ABU71593.
XX
PT   Isolated nucleic acid useful for e.g., treating pathological disorders
PT   encodes a secreted or transmembrane protein.
XX
PS   Claim 2; Fig 8; 473pp; English.
XX
CC   The invention relates to human PRO polypeptides (secreted or
CC   transmembrane polypeptides) and the polynucleotides encoding them. The
CC   PRO polypeptides and polynucleotides can be used in treating pathological
CC   disorders and tumours, in therapeutic treatment of cardiac insufficiency
CC   disorders and in therapeutic treatment of disorders involving protein
CC   secretion by the pancreas, including diabetes. They can also be used in
CC   treating disorders associated with the preservation and maintenance of
CC   gastrointestinal mucosa and the repair of acute and chronic mucosal
CC   lesions, and skin diseases associated with abnormal keratinocyte
CC   differentiation (e.g., psoriases, epithelial cancers such as lung
CC   squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).
CC   The sequences can be used as molecular markers for protein
CC   electrophoresis purposes and can be utilised in protein-protein binding
CC   assays, biochemical screening assays, immunoassays and cell-based assays.
CC   This sequence represents a human PRO polynucleotide of the invention
XX
SQ   Sequence 960 BP;  182 A;  326 C;  274 G;  178 T;  0 U;  0 Other;

     Query Match      99.6%;   Score 232;   DB 7;   Length 960;
     Best Local Similarity   99.6%;   Pred. No. 5.8e-54;
     Matches   232;   Conservative    0;   Mismatches    1;   Indels    0;   Gaps    0;

Qy     1  CTGGCCCAGTGGGAGCCTGTCCCTGGTTCCTGGTCACATCCTAACGCAAGTCTGACCATG  60
                  ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   432  CTGGCCCAGTGGGAGCCTGTCCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  491

Qy    61  TATGTCTGCNCCCCTGTCCCCACCCCTGACCCTGACCCTGGCCCTCTCCAGGACTCCCACC  120
                  ||||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||
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Query Match                    99.6%;   Score 232;  DB 7;  Length 960;
Best Local Similarity          99.6%;   Pred. No. 5.8e-54;
Matches  232;  Conservative    0;  Mismatches   1;  Indels     0;  Gaps    0;

Qy       1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCTGAGGCACATCCTAACGCAAGTCTGACCATG   60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCTGAGGCACATCCTAACGCAAGTCTGACCATG  491

Qy      61 TATGTCTGCNCCCTGTCCCCACCCTGACCCTCTCCAGGACTCCCACC  120
           |||||||||| ||||||||||||||||||||||||||||||||||||
Db     492 TATGTCTGCACCCTGTCCCCACCCTGACCCTCTCCAGGACTCCCACC  551

Qy     121 CGGCAGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGGCCCCTCCAACCCTCTCTGC  180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     552 CGGCAGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGGCCCCTCCAACCCTCTCTGC  611

Qy     181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTGTGCTCAGGCACCT  233
           |||||||||||||||||||||||||||||||||||||||||||||
Db     612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  664

RESULT 9
ACA60013
ID   ACA60013 standard; cDNA; 960 BP.
XX
AC   ACA60013;
XX
DT   12-JUN-2003  (first entry)
XX
DE   Human cDNA for secreted/transmembrane protein PRO232.
XX
KW   Human; ss; gene; secreted protein; transmembrane protein; PRO;
KW   gene therapy; chromosome identification; chromosome marker.
XX
OS   Homo sapiens.
XX
PN   US2003003530-A1.
XX
PD   02-JAN-2003.
XX
PF   11-JUL-2001; 2001US-00904011.
XX
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0061225P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062814P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
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PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0063704P.
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PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0065593P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0066364P.
PR   24-NOV-1997;   97US-0066453P.
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PR   24-NOV-1997;   97US-0066511P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   01-DEC-1998;   98WO-US025108.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.
PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.
PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.
PR   18-SEP-2000;   2000WO-US065350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,    Botstein D,    Desnoyers L,    Eaton DL,    Ferrara N;
PI   Filvaroff E,    Fong S,    Gao W,    Gerber H,    Gerritsen ME,    Goddard A;
PI   Godowski PJ,    Grimaldi JC,    Gurney AL,    Hillan KJ,    Kljavin IJ;
PI   Mather JP,    Pan J,    Paoni NF,    Roy MA,    Stewart TA,    Tumas D;
PI   Williams PM,    Wood WI;
XX
DR   WPI; 2003-361832/34.
DR   P-PSDB; ABU71448.
XX
PT   New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or
PT   PRO1868, useful in molecular biology, chromosome and gene mapping, in
PT   generating antisense RNA and DNA, and in gene therapy.
XX
PS   Claim 2; Fig 8; 474pp; English.
XX
CC   The present invention relates to the isolation of novel human secreted
CC   and transmembrane proteins (PRO polypeptides), and the polynucleotide
CC   sequences encoding them. The polynucleotide sequences are useful in
CC   molecular biology, as hybridisation probes, in chromosome and gene
CC   mapping, in generating antisense RNA and DNA, and in gene therapy. The
CC   polynucleotide sequences may also be used in preparing PRO polypeptides
CC   by recombinant techniques, and in generating either transgenic animals or
CC   knock-out animals which, in turn, are useful in the development and
CC   screening of therapeutically useful reagents. The PRO polypeptides or
CC   their antibodies are useful in preparing a medicament for treating a
CC   condition responsive to the polypeptide or antibody, such as cancer,
CC   Alzheimer's disease or ischaemia, and in various diagnostic assays. The
CC   present sequence encodes a human PRO polypeptide of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;
```

CC   an isolated PRO polypeptide (having at least 80% sequence identity to: (
CC   a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino
CC   acid sequence encoded by a nucleic acid molecule deposited with an ATCC
CC   number (detailed in the specification); or (c) an extracellular domain of
CC   a PRO polypeptide or to a PRO polypeptide lacking its associated signal
CC   peptide), a chimaeric molecule comprising a PRO polypeptide of fused to a
CC   heterologous amino acid sequence, an anti-PRO antibody, detecting a
CC   PRO245 or PRO1868 in a sample suspected of containing the polypeptide,
CC   linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 and
CC   modulating at least one biological activity of a cell expressing a PRO245
CC   or PRO1868. Nucleic acids which encode PRO can be used to generate either
CC   transgenic animals or knock-out animals which may be used in the
CC   development and screening of therapeutically useful reagents. The nucleic
CC   acids may also be used in gene therapy, in chromosome identification, as
CC   chromosome markers, or in generating probes. The PRO polypeptides are
CC   useful as molecular markers for protein electrophoresis, and the isolated
CC   nucleic acids may be used for recombinant expressing those markers. The
CC   PRO polypeptides and nucleic acids may also be used in tissue typing.
CC   Anti-PRO antibodies are useful in diagnostic assays for PRO, and in
CC   affinity purification of PRO from recombinant cell culture or natural
CC   sources. The present sequence encodes a PRO protein.
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%; Score 232; DB 7; Length 960;
Best Local Similarity   99.6%; Pred. No. 5.8e-54;
Matches   232; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 CTGGCCCAGTGGGAGCCTGTCCTGTTCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   432 CTGGCCCAGTGGGAGCCTGTCCTGTTCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy   61 TATGTCTGCNCCCCTGTCCCCCACCCTGACCCTCCAGGACTCCCACC 120
         ||||||||| |||||||||||||||||||||||||||||||||||||
Db   492 TATGTCTGCACCCCTGTCCCCCACCCTGACCCTCCAGGACTCCCACC 551

Qy   121 CGGCAGATCAGCTCTAGTGACACAGATCGCCTGCAGATGGCCCCTCCAACCCTCTCTGC 180
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   552 CGGCAGATCAGCTCTAGTGACACAGATCGCCTGCAGATGGCCCCTCCAACCCTCTCTGC 611

Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTGTCAGGCACCT 233
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTGTCAGGCACCT 664

RESULT 10
ACD07413
ID   ACD07413 standard; cDNA; 960 BP.
XX
AC   ACD07413;
XX
DT   07-AUG-2003 (first entry)
XX
DE   Novel human secreted and transmembrane protein PRO232 cDNA.
XX
KW   Human; secreted and transmembrane protein; PRO; pharmaceutical;
KW   diagnostic; biosensor; bioreactor; Parkinson's disease;
KW   Alzheimer's disease; inflammation; nephritis; wound healing;
KW   nerve repair; collateral blood vessel formation; cancer;
KW   colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;
KW   cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;
KW   scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;
KW   infertility; gene therapy; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2002197671-A1.
XX
PD   26-DEC-2002.
XX
PF   17-JUL-2001; 2001US-00907824.
XX
PR   17-SEP-1997; 97US-0059113P.

PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064248P.
PR   07-NOV-1997; 97US-0064809P.
PR   12-NOV-1997; 97US-0065186P.
PR   17-NOV-1997; 97US-0065846P.
PR   18-NOV-1997; 97US-0056993P.
PR   21-NOV-1997; 97US-0066120P.
PR   21-NOV-1997; 97US-0066364P.
PR   24-NOV-1997; 97US-0066453P.
PR   24-NOV-1997; 97US-0066466P.
PR   24-NOV-1997; 97US-0056551P.
PR   24-NOV-1997; 97US-0066770P.
PR   24-NOV-1997; 97US-0066772P.
PR   10-SEP-1998; 98WO-US018824.
PR   14-SEP-1998; 98WO-US019177.
PR   16-SEP-1998; 98WO-US019330.
PR   17-SEP-1998; 98WO-US019437.
PR   01-DEC-1998; 98WO-US025108.
PR   08-SEP-1999; 99WO-US020594.
PR   13-SEP-1999; 99WO-US020944.
PR   15-SEP-1999; 99WO-US021090.
PR   15-SEP-1999; 99WO-US021547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
PR   30-NOV-1999; 99WO-US028313.
PR   01-DEC-1999; 99WO-US028301.
PR   02-DEC-1999; 99WO-US028564.
PR   02-DEC-1999; 99WO-US028565.
PR   16-DEC-1999; 99WO-US030005.
PR   20-DEC-1999; 99WO-US030911.
PR   20-DEC-1999; 99WO-US030999.
PR   05-JAN-2000; 2000WO-US000219.
PR   11-FEB-2000; 2000WO-US003565.
PR   22-FEB-2000; 2000WO-US004414.
PR   24-FEB-2000; 2000WO-US008439.
PR   02-MAR-2000; 2000WO-US005004.
PR   02-MAR-2000; 2000WO-US005841.
PR   20-MAR-2000; 2000WO-US007377.
PR   30-MAR-2000; 2000WO-US008439.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   28-JUL-2000; 2000WO-US020710.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-0066535O.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-329602/31.
DR   P-PSDB; ABU71894.
XX
PT   New transmembrane polypeptides and nucleic acids encoding the
PT   polypeptides, useful in gene therapy, in chromosome identification, as
PT   chromosome markers, in generating probes and in tissue typing.
XX
PS   Claim 2; Fig 8; 484pp; English.
XX
CC   The invention relates to an isolated nucleic acid with at least 80%
CC   nucleic acid sequence identity to a nucleotide sequence encoding one of
CC   61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a
CC   PRO protein extracellular domain. Also included are a vector comprising
CC   the PRO nucleic acid, a host cell comprising the vector, producing a PRO
CC   polypeptide (by culturing the host cell for the expression of the PRO
CC   polypeptide, and recovering the PRO polypeptide from the cell culture),

```
PR   17-SEP-1997;  97US-0059115P.
PR   17-SEP-1997;  97US-0059117P.
PR   17-SEP-1997;  97US-0059119P.
PR   17-SEP-1997;  97US-0059121P.
PR   17-SEP-1997;  97US-0059122P.
PR   17-SEP-1997;  97US-0059184P.
PR   18-SEP-1997;  97US-0059263P.
PR   18-SEP-1997;  97US-0059266P.
PR   15-SEP-1997;  97US-0062125P.
PR   17-OCT-1997;  97US-0062285P.
PR   17-OCT-1997;  97US-0062287P.
PR   21-OCT-1997;  97US-0063486P.
PR   24-OCT-1997;  97US-0062814P.
PR   24-OCT-1997;  97US-0062816P.
PR   24-OCT-1997;  97US-0063045P.
PR   24-OCT-1997;  97US-0063120P.
PR   24-OCT-1997;  97US-0063121P.
PR   24-OCT-1997;  97US-0063127P.
PR   24-OCT-1997;  97US-0063128P.
PR   27-OCT-1997;  97US-0063329P.
PR   28-OCT-1997;  97US-0063541P.
PR   28-OCT-1997;  97US-0063542P.
PR   28-OCT-1997;  97US-0063544P.
PR   28-OCT-1997;  97US-0063549P.
PR   28-OCT-1997;  97US-0063550P.
PR   28-OCT-1997;  97US-0063564P.
PR   28-OCT-1997;  97US-0063435P.
PR   29-OCT-1997;  97US-0063704P.
PR   29-OCT-1997;  97US-0063732P.
PR   29-OCT-1997;  97US-0063734P.
PR   29-OCT-1997;  97US-0063735P.
PR   29-OCT-1997;  97US-0063738P.
PR   29-OCT-1997;  97US-0064215P.
PR   31-OCT-1997;  97US-0063870P.
PR   31-OCT-1997;  97US-0064103P.
PR   03-NOV-1997;  97US-0064248P.
PR   07-NOV-1997;  97US-0064809P.
PR   12-NOV-1997;  97US-0065186P.
PR   17-NOV-1997;  97US-0058846P.
PR   18-NOV-1997;  97US-0065693P.
PR   21-NOV-1997;  97US-0066120P.
PR   21-NOV-1997;  97US-0066364P.
PR   24-NOV-1997;  97US-0066453P.
PR   24-NOV-1997;  97US-0066466P.
PR   24-NOV-1997;  97US-0066511P.
PR   24-NOV-1997;  97US-0066770P.
PR   24-NOV-1997;  97US-0066772P.
PR   10-SEP-1998;  98US-0018824.
PR   14-SEP-1998;  98US-0019177.
PR   16-SEP-1998;  98WO-US019330.
PR   17-SEP-1998;  98WO-US019437.
PR   01-DEC-1998;  98WO-US025108.
PR   08-SEP-1999;  99WO-US020594.
PR   13-SEP-1999;  99WO-US020944.
PR   15-SEP-1999;  99WO-US021090.
PR   15-SEP-1999;  99WO-US021547.
PR   05-OCT-1999;  99WO-US023089.
PR   29-NOV-1999;  99WO-US028214.
PR   30-NOV-1999;  99WO-US028813.
PR   01-DEC-1999;  99WO-US028301.
PR   02-DEC-1999;  99WO-US028664.
PR   02-DEC-1999;  99WO-US028565.
PR   16-DEC-1999;  99WO-US030095.
PR   20-DEC-1999;  99WO-US030911.
PR   20-DEC-1999;  99WO-US030999.
PR   05-JAN-2000;  2000WO-US000219.
PR   11-FEB-2000;  2000WO-US003565.
PR   22-FEB-2000;  2000WO-US004414.
PR   24-FEB-2000;  2000WO-US005004.
PR   02-MAR-2000;  2000WO-US005841.
PR   20-MAR-2000;  2000WO-US007377.
PR   30-MAR-2000;  2000WO-US008439.

PR   22-MAY-2000;  2000WO-US014042.
PR   02-JUN-2000;  2000WO-US015264.
PR   28-JUL-2000;  2000WO-US020710.
PR   24-AUG-2000;  2000WO-US023328.
PR   18-SEP-2000;  2000US-0065350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI   Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI   Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI   Williams PM, Wood WI;
XX
DR   WPI; 2003-370793/35.
DR   P-PSDB; AB01777.
XX
PT   New genes and secreted and transmembrane polypeptides (e.g. PRO245 or
PT   PRO335), useful for treating or diagnosing e.g. Alzheimer's disease,
PT   cancers, hemorrhage, rheumatoid arthritis, diabetes, cirrhosis, ischemia
PT   or strokes.
XX
PS   Claim 2; Fig 8; 482pp; English.
XX
CC   The invention describes a new isolated nucleic acid molecule comprising
CC   the full length coding sequence of the DNA deposited with the American
CC   Type Culture Collection (e.g. ATCC Deposit No. 209258), or a sequence
CC   with at least 80% identity to a DNA encoding a PRO polypeptide comprising
CC   any of 61 sequences having 164-1119 amino acids fully defined in the
CC   specification. The PRO polypeptides or polynucleotides are useful as
CC   pharmaceuticals, diagnostics, biosensors or bioreactors. These are
CC   particularly useful for detecting or treating e.g. Parkinson's disease,
CC   Alzheimer's disease, inflammation, nephritis, wound healing, nerve
CC   repair, collateral blood vessel formation, cancers (e.g. colorectal
CC   cancer), haemorrhage (or reduce risk for haemorrhage), rheumatoid
CC   arthritis, diabetes, cirrhosis of the liver, fibrosis of the lungs,
CC   restenosis, dermal fibrotic conditions (e.g. keloids or scarring),
CC   ischaemia, strokes, hypertension, heart attacks, atherosclerosis, or
CC   infertility in mammals (e.g. humans, dogs, cats, cattle, horses, sheep,
CC   pigs, goats, or rabbits) The PRO polypeptides are useful as targets for
CC   therapeutic intervention in these diseases, and diagnostic determination
CC   of the presence of these diseases. The PRO polypeptides are also useful
CC   as molecular weight markers, or for chromosome identification. The PRO
CC   genes are useful as hybridisation probes, or for screening libraries of
CC   human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC   therapy, particularly for replacing a defective gene. This sequence
CC   encodes a novel human secreted and transmembrane PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             99.6%;  Score 232;  DB 7;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 5.8e-54;
Matches  232;  Mismatches    0;  Conservative    0;  Indels    1;  Gaps    0;

Qy          1 CTGGCCCAGTGGGAGCCGTCTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
              ||||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||
Db        432 CTGGCCCAGTGGGAGCCGTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy         61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTGACCCTGACCCTCCAGGAGTCCACC 120
              |||||||||  |||||||||||||||||||||||||||||||||||||||||| |||||
Db        492 TATGTCTGCACCCCTGTCCCCACCCTGACCCTGACCCTGACCCTCCAGGACTCCACC 551

Qy        121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGC 180
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGC 611

Qy        181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
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Db        612 TGCTGTTTCCACGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 11
ABX71461
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ID   ABX71461 standard; cDNA; 960 BP.
XX
AC   ABX71461;
XX
DT   10-MAR-2003  (first entry)
XX
DE   Human cDNA encoding secreted/transmembrane protein PRO232.
XX
KW   Human; PRO; secreted protein; transmembrane protein; enterocolitis;
KW   gastrointestinal ulceration; skin disease; ss; gene;
KW   abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW   squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
KW   amyotrophic lateral sclerosis; inflammatory disease;
KW   rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
KW   atherosclerosis; cardiac injury; infertility; birth defect;
KW   premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
KW   diabetic complication; wound repair.
XX
OS   Homo sapiens.
XX
PN   US2002132240-A1.
XX
PD   19-SEP-2002.
XX
PF   18-JUL-2001; 2001US-00909320.
XX
PR   17-SEP-1997;     97US-0059113P.
PR   17-SEP-1997;     97US-0059115P.
PR   17-SEP-1997;     97US-0059117P.
PR   17-SEP-1997;     97US-0059119P.
PR   17-SEP-1997;     97US-0059121P.
PR   17-SEP-1997;     97US-0059122P.
PR   17-SEP-1997;     97US-0059188P.
PR   18-SEP-1997;     97US-0059263P.
PR   18-SEP-1997;     97US-0059266P.
PR   15-OCT-1997;     97US-0062125P.
PR   17-OCT-1997;     97US-0062285P.
PR   17-OCT-1997;     97US-0062287P.
PR   21-OCT-1997;     97US-0063486P.
PR   24-OCT-1997;     97US-0062814P.
PR   24-OCT-1997;     97US-0062816P.
PR   24-OCT-1997;     97US-0063045P.
PR   24-OCT-1997;     97US-0063120P.
PR   24-OCT-1997;     97US-0063735P.
PR   24-OCT-1997;     97US-0063121P.
PR   24-OCT-1997;     97US-0063127P.
PR   27-OCT-1997;     97US-0063128P.
PR   27-OCT-1997;     97US-0063327P.
PR   27-OCT-1997;     97US-0063329P.
PR   28-OCT-1997;     97US-0063541P.
PR   28-OCT-1997;     97US-0063542P.
PR   28-OCT-1997;     97US-0063544P.
PR   28-OCT-1997;     97US-0063549P.
PR   28-OCT-1997;     97US-0063550P.
PR   28-OCT-1997;     97US-0063564P.
PR   29-OCT-1997;     97US-0063435P.
PR   29-OCT-1997;     97US-0063704P.
PR   29-OCT-1997;     97US-0063732P.
PR   29-OCT-1997;     97US-0063734P.
PR   29-OCT-1997;     97US-0063738P.
PR   31-OCT-1997;     97US-0064115P.
PR   31-OCT-1997;     97US-0063870P.
PR   31-OCT-1997;     97US-0064103P.
PR   03-NOV-1997;     97US-0064448P.
PR   07-NOV-1997;     97US-0064809P.
PR   12-NOV-1997;     97US-0065186P.
PR   17-NOV-1997;     97US-0065846P.
PR   18-NOV-1997;     97US-0065693P.
PR   21-NOV-1997;     97US-0066120P.
PR   21-NOV-1997;     97US-0066164P.
PR   24-NOV-1997;     97US-0064453P.
PR   24-NOV-1997;     97US-0066466P.
PR   24-NOV-1997;     97US-0066511P.
PR   24-NOV-1997;     97US-0066770P.
PR   24-NOV-1997;     97US-0066772P.
PR   10-SEP-1998;     98WO-US018824.
PR   14-SEP-1998;     98WO-US019177.
PR   16-SEP-1998;     98WO-US019330.
PR   17-SEP-1998;     98WO-US019437.
PR   01-DEC-1998;     98WO-US025108.
PR   08-SEP-1999;     99WO-US020594.
PR   13-SEP-1999;     99WO-US020944.
PR   15-SEP-1999;     99WO-US021090.
PR   15-SEP-1999;     99WO-US021547.
PR   05-OCT-1999;     99WO-US023089.
PR   29-NOV-1999;     99WO-US028214.
PR   30-NOV-1999;     99WO-US028313.
PR   01-DEC-1999;     99WO-US028301.
PR   02-DEC-1999;     99WO-US028564.
PR   02-DEC-1999;     99WO-US028565.
PR   16-DEC-1999;     99WO-US030095.
PR   20-DEC-1999;     99WO-US030911.
PR   20-DEC-1999;     99WO-US030999.
PR   06-JAN-2000;     2000WO-US000219.
PR   11-FEB-2000;     2000WO-US003565.
PR   22-FEB-2000;     2000WO-US004414.
PR   24-FEB-2000;     2000WO-US005004.
PR   02-MAR-2000;     2000WO-US005841.
PR   20-MAR-2000;     2000WO-US007377.
PR   30-MAR-2000;     2000WO-US008439.
PR   22-MAY-2000;     2000WO-US014042.
PR   02-JUN-2000;     2000WO-US015264.
PR   28-JUL-2000;     2000WO-US020710.
PR   24-AUG-2000;     2000WO-US023328.
PR   18-SEP-2000;     2000US-00665350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-147434/14.
DR   P-PSDB; ABU54350.
XX
PT   New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
PT   treating inflammatory diseases, organ failure, atherosclerosis, cardiac
PT   injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
PT   disease.
XX
PS   Claim 2; Fig 8; 473pp; English.
XX
CC   The invention relates to an isolated PRO polypeptide having at least 80%
CC   amino acid sequence identity to: (a) any one of 61 fully defined amino
CC   acid sequences given in the specification (appearing as ABU54347-
CC   ABU54407); (b) an amino acid sequence encoded by the nucleotide sequence
CC   deposited under American Type Culture Collection (accession numbers
CC   listed in the specification); (c) any one of the PRO sequences which
CC   lacks its associated signal peptide; (d) an extracellular domain of the
CC   PRO polypeptide with its associated signal peptide; or (e) an
CC   extracellular domain of the PRO polypeptide which lacks its associated
CC   signal peptide. Also include are the nucleic acids encoding the PRO
CC   polypeptides, vectors, host cells and anti-PRO antibodies. The PRO
CC   polypeptides and nucleic acids are useful in diagnosing or treating
CC   enterocolitis, gastrointestinal ulceration, skin diseases associated with
CC   abnormal keratinocyte differentiation, e.g. psoriasis or epithelial
CC   cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's
CC   disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g.
CC   rheumatoid arthritis, asthma or multiple sclerosis, organ failure,
CC   atherosclerosis, cardiac injury, infertility, birth defects, premature
CC   aging, AIDS, cancer, diabetic complications, or mutations in general. The
CC   polypeptides are also useful for wound repair and associated therapies
CC   concerned with re-growth of tissue. The nucleotide sequences may be used
CC   as hybridisation probes in chromosome and gene mapping, or in generating
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CC   antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
CC   polypeptides, in assays to identify other proteins or molecules involved
CC   in binding reaction, to generate transgenic animals or knockout animals,
CC   which in turn are useful in the development and screening of
CC   therapeutically useful reagents, for chromosome identification, and
CC   tissue typing. The PRO polypeptides and nucleic acid molecules are also
CC   useful in gene therapy, and as molecular weight markers for protein
CC   electrophoresis purposes. The anti-PRO antibodies may be used in
CC   diagnostic assays for PRO, or for the affinity purification of PRO from
CC   recombinant cell culture or natural sources. The present sequence encodes
CC   a PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             99.6%;  Score 232;  DB 7;  Length 960;
Best Local Similarity   99.6%;
Matches  232;  Conservative   0;  Mismatches   1;  Indels    0;  Gaps     0;

Qy        1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy       61 TATGTCTGCNCCCCTGTCCCCACCTGACCCTCCATGGCCCTTCCAGGACTCCCACC 120
            |||||||||| |||||||||||||||||||||||||||||||||||||||||||||
Db      492 TATGTCTGCACCCCTGTCCCCACCTGACCCTCCATGGCCCTTCCAGGACTCCCACC 551

Qy      121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGAGATGGCCCCTCCAACCCTCTCTGC 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGAGATGGCCCCTCCAACCCTCTCTGC 611

Qy      181 TGCTGTTTCCATGGCCCAGCATTCTCCACCTTAACCCTGTGCTCAGGCACCT 233
            ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      612 TGCTGTTTCCATGGCCCAGCATTCTCCACCTTAACCCTGTGCTCAGGCACCT 664


RESULT 12
ACH06793
ID   ACH06793 standard; cDNA; 960 BP.
XX
AC   ACH06793;
XX
DT   08-OCT-2003  (first entry)
XX
DE   Human secreted/transmembrane polypeptide PRO232 cDNA.
XX
KW   Human; gene; ss; abnormal bleeding; gynaecological disease; asthma;
KW   hysterectomy; angiogenesis; coronary ischaemic condition; skin disease;
KW   gastrointestinal mucosa disorder; acute mucosal lesion; neuropathy; ALS;
KW   chronic mucosal lesion; abnormal keratinocyte differentiation; psoriasis;
KW   Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;
KW   uncontrolled cell growth; cancer; blood coagulation cascade; thrombosis;
KW   haemorrhage; endometrial bleeding; angiogenesis; wound healing; tumour;
KW   tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.
XX
OS   Homo sapiens.
XX
PN   US20031044839-A1.
XX
PD   06-MAR-2003.
XX
PF   10-JUL-2001; 2001US-00902903.
XX
PR   17-SEP-1997;  97US-0059113P.
PR   17-SEP-1997;  97US-0059115P.
PR   17-SEP-1997;  97US-0059117P.
PR   17-SEP-1997;  97US-0059119P.
PR   17-SEP-1997;  97US-0059121P.
PR   17-SEP-1997;  97US-0059122P.
PR   17-SEP-1997;  97US-0059184P.
PR   18-SEP-1997;  97US-0059263P.
PR   18-SEP-1997;  97US-0059266P.
PR   15-OCT-1997;  97US-0062125P.
PR   17-OCT-1997;  97US-0062285P.
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PR   17-OCT-1997;  97US-0062287P.
PR   21-OCT-1997;  97US-0063486P.
PR   24-OCT-1997;  97US-0062814P.
PR   24-OCT-1997;  97US-0062816P.
PR   24-OCT-1997;  97US-0063045P.
PR   24-OCT-1997;  97US-0063110P.
PR   24-OCT-1997;  97US-0063121P.
PR   24-OCT-1997;  97US-0063127P.
PR   24-OCT-1997;  97US-0063128P.
PR   27-OCT-1997;  97US-0063327P.
PR   27-OCT-1997;  97US-0063329P.
PR   28-OCT-1997;  97US-0063541P.
PR   28-OCT-1997;  97US-0063542P.
PR   26-OCT-1997;  97US-0063544P.
PR   28-OCT-1997;  97US-0063549P.
PR   28-OCT-1997;  97US-0063550P.
PR   28-OCT-1997;  97US-0063564P.
PR   29-OCT-1997;  97US-0063435P.
PR   29-OCT-1997;  97US-0063704P.
PR   29-OCT-1997;  97US-0063732P.
PR   29-OCT-1997;  97US-0063734P.
PR   29-OCT-1997;  97US-0063735P.
PR   29-OCT-1997;  97US-0063738P.
PR   29-OCT-1997;  97US-0064215P.
PR   31-OCT-1997;  97US-0063870P.
PR   31-OCT-1997;  97US-0064103P.
PR   03-NOV-1997;  97US-0064248P.
PR   07-NOV-1997;  97US-0064809P.
PR   12-NOV-1997;  97US-0065186P.
PR   17-NOV-1997;  97US-0065846P.
PR   18-NOV-1997;  97US-0065693P.
PR   21-NOV-1997;  97US-0066120P.
PR   21-NOV-1997;  97US-0066364P.
PR   24-NOV-1997;  97US-0066453P.
PR   24-NOV-1997;  97US-0066466P.
PR   24-NOV-1997;  97US-0066511P.
PR   24-NOV-1997;  97US-0066770P.
PR   24-NOV-1997;  97US-0066772P.
PR   25-NOV-1997;  97US-0066840P.
PR   12-DEC-1997;  97US-0069425P.
PR   04-JUN-1998;  98US-0088026P.
PR   10-SEP-1998;  98US-0099803P.
PR   10-SEP-1998;  98WO-US018824
PR   14-SEP-1998;  98US-0100262P.
PR   14-SEP-1998;  98WO-US019177
PR   16-SEP-1998;  98WO-US019330.
PR   17-SEP-1998;  98US-0100858P.
PR   17-SEP-1998;  98WO-US019437.
PR   13-OCT-1998;  98US-0104080P.
PR   20-NOV-1998;  98US-0109304P.
PR   01-DEC-1998;  98WO-US025108.
PR   22-DEC-1998;  98US-0113296P.
PR   07-JUL-1999;  99US-0143048P.
PR   26-JUL-1999;  99US-0145698P.
PR   28-JUL-1999;  99US-0146222P.
PR   08-SEP-1999;  99WO-US020594.
PR   13-SEP-1999;  99WO-US020944.
PR   15-SEP-1999;  99WO-US021090.
PR   15-SEP-1999;  99US-0021547.
PR   05-OCT-1999;  99WO-US023089.
PR   29-NOV-1999;  99WO-US028214.
PR   30-NOV-1999;  99US-0028313
PR   01-DEC-1999;  99WO-US028301.
PR   02-DEC-1999;  99WO-US028564.
PR   02-DEC-1999;  99WO-US028565.
PR   16-DEC-1999;  99WO-US030095.
PR   20-DEC-1999;  99WO-US030911.
PR   20-DEC-1999;  99WO-US030999.
PR   05-JAN-2000;  2000WO-US000219.
PR   11-FEB-2000;  2000WO-US003565.
PR   22-FEB-2000;  2000WO-US004414.
PR   24-FEB-2000;  2000WO-US005004.
PR   02-MAR-2000;  2000WO-US005841.
```

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Db       612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664
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```

RESULT 13
ABX96030
ID   ABX96030 standard; cDNA; 960 BP.
XX
AC   ABX96030;
XX
DT   13-MAY-2003 (first entry)
XX
DE   Human secreted/transmembrane protein cDNA, #5.
XX
KW   Human; gene; ss; PRO; secreted; transmembrane; pharmaceutical;
KW   diagnostic; biosensor; bioreactor; therapeutic; hyperplasia;
KW   endometriosis; cancer; tumour; ischaemia; coronary arterial disease;
KW   polycystic kidney disease; renal failure; inflammatory response; asthma;
KW   rheumatoid arthritis; psoriasis; multiple sclerosis; gene therapy;
KW   cytostatic; gynecological; cardiant; nephrotropic; hepatotropic;
KW   antiinflammatory.
XX
OS   Homo sapiens.
XX
PN   US2002160374-A1.
XX
PD   31-OCT-2002.
XX
PF   12-JUL-2001; 2001US-00905291.
XX
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0062125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062816P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062814P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   27-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   28-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0065186P.
PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0065693P.
PR   21-NOV-1997;   97US-0066120P.
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CC   The invention relates to an isolated PRO polypeptide. PRO317 is useful in
CC   diagnosing or treating abnormal bleeding involved in gynecological
CC   diseases e.g. to avoid or lessen the need for hysterectomy. PRO317 may
CC   also be useful as an agent that affects angiogenesis and PRO317 is useful
CC   in anti-tumour indications or in treating coronary ischaemic conditions.
CC   PRO211 and PRO217 polypeptides are useful for treating disorders
CC   associated with the preservation and maintenance of gastrointestinal
CC   mucosa and the repair of acute and chronic mucosal lesions, skin diseases
CC   associated with abnormal keratinocyte differentiation (e.g. psoriasis).
CC   PRO187 polypeptide is useful for treating Parkinson's disease,
CC   Alzheimer's disease, amyotrophic lateral sclerosis (ALS), neuropathies
CC   and disease related to uncontrolled cell growth, e.g. cancer. PRO219
CC   polypeptide plays a regulatory role in the blood coagulation cascade.
CC   PRO246 polypeptides which serves as tumour specific antigens may be
CC   exploited as therapeutic targets for anti-tumour drugs. PRO269
CC   polypeptide is useful as an antithrombotic agent with reduced risk for
CC   haemorrhage as compared with heparin. PRO317 polypeptide is useful in
CC   treating endometrial bleeding angiogenesis. PRO287 polypeptides and
CC   portion have therapeutic applications in wound healing and tissue repair.
CC   PRO234 polypeptides are useful for treating asthma, rheumatoid arthritis,
CC   psoriasis and multiple sclerosis. The polypeptide and its nucleic acid
CC   are useful for tissue typing. PRO antibodies are useful for
CC   immunohistochemical staining and/or assay of sample fluids. Anti-PRO
CC   antibodies are useful in diagnostic assays for PRO e.g. detecting its
CC   expression in specific cells, tissues or serum and for affinity
CC   purification of PRO from recombinant cell culture or natural sources. The
CC   present sequence represents cDNA encoding a human secreted/transmembrane
CC   PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%;   Score 232;   DB 7;   Length 960;
Best Local Similarity   99.6%;   Pred. No. 5.8e-54;
Matches   232;   Conservative   0;   Mismatches   1;   Indels   0;   Gaps   0;

Qy   1 CTGGGCCAGTGGGAGCCTTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   432 CTGGGCCAGTGGGAGCCTTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy   61 TATGTCTGCNCCCCTGTGCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACC 120
          |||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   492 TATGTCTGCACCCCCTGTGCCCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACC 551

Qy   121 CGGCAGATCAGCTCTAGTGACACAGATCCGGCTGACAGATGCCCCTCCAACCCCTTCTGC 180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   552 CGGCAGATCAGCTCTAGTGACACAGATCCGGCTGACAGATGCCCCTCCAACCCCTTCTGC 611

Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233

Query Match   99.6%;   Score 232;   DB 7;   Length 960;
Best Local Similarity 99.6%;   Pred. No. 5.8e-54;
Matches   232;   Conservative   0;   Mismatches   1;   Indels   0;   Gaps   0;

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Qy      1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG   60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  491

Qy     61 TATGTCTGCNCCCCTGGTCCCCACCCTGACCCTGCCTCTCCAGGACTCCCACC         120
          ||||||||| ||||||||||||||||||||||||||||||||||||||||||||
Db    492 TATGTCTGCACCCCTGTCCCCACCCTGACCCTGCCTCTCCAGGACTCCCACC         551

Qy    121 CGGCAGATCAGTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCAACCCTCTCTGC    180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    552 CGGCAGATCAGTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTCTGC  611

Qy    181 TGCTGTTCCATGCCCAGCATTCTCCACCCTAACCCTGTGTGCTCAGCCACCT        233
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    612 TGCTGTTCCATGCCCAGCATTCTCCACCCTTAACCCTGTGTGCTCAGCCACCT        664
```

RESULT 14
ACA05351
ID   ACA05351 standard; cDNA; 960 BP.
XX
AC   ACA05351;
XX
DT   29-MAY-2003   (first entry)
XX
DE   cDNA encoding human secreted protein PRO232.
XX
KW   Human; gene therapy; mucosal lesion; ulcer; enterocolitis; skin disease;
KW   psoriasis; cancer; lung cancer; colon cancer; nerve cell disease;
KW   Alzheimer's disease; Parkinson's disease; Usher syndrome; angiogenesis;
KW   atrophia areata; inflammatory disease; asthma; rheumatoid arthritis;
KW   ischaemia; ss; gene.
XX
OS   Homo sapiens.
XX
PN   US2003023054-A1.
XX
PD   30-JAN-2003.
XX
PF   16-JUL-2001; 2001US-00906742.
XX

PR   21-NOV-1997;   97US-0066364P.
PR   24-NOV-1997;   97US-0066453P.
PR   24-NOV-1997;   97US-0064466P.
PR   24-NOV-1997;   97US-0066511P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   01-DEC-1998;   98WO-US025108.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.
PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.
PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.
PR   18-SEP-2000;   2000US-00665350.
PR   15-OCT-1997;   97US-0062125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062814P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-288105/28.
DR   P-PSDB; ABU64502.
XX
PT   New secreted and transmembrane PRO polypeptides (e.g. PRO533 or PRO245)
PT   and genes encoding them, useful for detecting or treating e.g.
PT   hyperplasia, endometriosis, cancers, ischemia, coronary arterial disease
PT   or inflammations.
XX
PS   Claim 2; Fig 8; 477pp; English.
XX
CC   The invention discloses isolated PRO secreted/transmembrane polypeptides
CC   and the nucleic acid encoding them. The polypeptides can be used to raise
CC   antibodies that specifically bind to the PRO polypeptide, for linking a
CC   bioactive molecule to a cell expressing a PRO protein and for modulating
CC   at least one biological activity of a cell. The PRO polypeptides or
CC   polynucleotides are also useful as pharmaceuticals, diagnostics,
CC   biosensors or bioreactors, for detecting or treating e.g. hyperplasia,
CC   endometriosis, cancers (e.g. those involving solid tumours), ischaemia,
CC   coronary arterial disease, polycystic kidney disease, chronic or acute
CC   renal failure, or inflammatory responses (e.g. asthma, rheumatoid
CC   arthritis, psoriasis or multiple sclerosis) in mammals. The PRO genes may
CC   also be used in gene therapy, particularly for replacing a defective
CC   gene. The sequences presented in ABX96017-ABX96378 are the genes
CC   encoding, the primers amplifying and the probes detecting the PRO
CC   polynucleotides of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

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PR   29-OCT-1997;  97US-0063435P.
PR   29-OCT-1997;  97US-0063704P.
PR   29-OCT-1997;  97US-0063732P.
PR   29-OCT-1997;  97US-0063734P.
PR   29-OCT-1997;  97US-0063735P.
PR   29-OCT-1997;  97US-0063738P.
PR   29-OCT-1997;  97US-0064215P.
PR   31-OCT-1997;  97US-0063870P.
PR   31-OCT-1997;  97US-0064103P.
PR   03-NOV-1997;  97US-0064248P.
PR   07-NOV-1997;  97US-0064809P.
PR   12-NOV-1997;  97US-0065186P.
PR   17-NOV-1997;  97US-0065846P.
PR   18-NOV-1997;  97US-0065693P.
PR   21-NOV-1997;  97US-0066120P.
PR   21-NOV-1997;  97US-0066364P.
PR   24-NOV-1997;  97US-0066453P.
PR   24-NOV-1997;  97US-0066466P.
PR   24-NOV-1997;  97US-0066511P.
PR   24-NOV-1997;  97US-0066770P.
PR   25-NOV-1997;  97US-0066840P.
PR   12-DEC-1997;  97US-0069425P.
PR   04-JUN-1998;  98US-0088026P.
PR   10-SEP-1998;  98US-0099803P.
PR   10-SEP-1998;  98WO-US018824.
PR   14-SEP-1998;  98US-0100262P.
PR   14-SEP-1998;  98WO-US019177.
PR   16-SEP-1998;  98WO-US019330.
PR   17-SEP-1998;  98US-0100858P.
PR   17-SEP-1998;  98WO-US019437.
PR   13-OCT-1998;  98US-0104080P.
PR   20-NOV-1998;  98US-0109304P.
PR   01-DEC-1998;  98WO-US025108.
PR   22-DEC-1998;  98US-0113296P.
PR   07-JUL-1999;  99US-0143048P.
PR   26-JUL-1999;  99US-0145698P.
PR   28-JUL-1999;  99US-0146222P.
PR   08-SEP-1999;  99WO-US020594.
PR   13-SEP-1999;  99US-0020944.
PR   15-SEP-1999;  99WO-US021090.
PR   15-SEP-1999;  99WO-US021547.
PR   05-OCT-1999;  99WO-US023089.
PR   29-NOV-1999;  99US-0028214.
PR   30-NOV-1999;  99WO-US028313.
PR   01-DEC-1999;  99WO-US028301.
PR   02-DEC-1999;  99WO-US028564.
PR   02-DEC-1999;  99WO-US028565.
PR   16-DEC-1999;  99WO-US030095.
PR   20-DEC-1999;  99WO-US030911.
PR   20-DEC-1999;  99WO-US030999.
PR   05-JAN-2000;  2000WO-US000219.
PR   11-FEB-2000;  2000WO-US003565.
PR   22-FEB-2000;  2000WO-US004414.
PR   24-FEB-2000;  2000WO-US005004.
PR   02-MAR-2000;  2000WO-US005841.
PR   20-MAR-2000;  2000WO-US007377.
PR   30-MAR-2000;  2000WO-US008439.
PR   22-MAY-2000;  2000WO-US014042.
PR   02-JUN-2000;  2000WO-US015264.
PR   28-JUL-2000;  2000WO-US020710.
PR   24-AUG-2000;  2000WO-US023328.
PR   18-SEP-2000;  2000US-0066350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI;  2003-331485/31.
```

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DR   P-PSDB; ABU67348.
XX
PT   Sixty one isolated nucleic acids encoding a PRO polypeptide, e.g. PRO245
PT   or PRO1868, useful in chromosome and gene mapping, in generating
PT   antisense RNA and DNA, and in treating cancer and Alzheimer's disease.
XX
PS   Example 4; Fig 8; 481pp; English.
XX
CC   The invention relates to sixty one nucleic acids encoding PRO
CC   polypeptides (secreted and transmembrane). The polynucleotide is useful
CC   in molecular biology, including uses as hybridisation probes, in
CC   chromosome and gene mapping, in generating antisense RNA and DNA, and in
CC   gene therapy. The polynucleotide may also be used in preparing PRO
CC   polypeptides by recombinant techniques, and in generating either
CC   transgenic animals or knock-out animals which, in turn, are useful in the
CC   development and screening of therapeutically useful reagents. The PRO
CC   polypeptide or the antibody is used in preparing a medicament for
CC   treating a condition responsive to the polypeptide or antibody, such as
CC   mucosal lesions e.g. ulcers and enterocolitis, skin disease e.g.
CC   psoriasis, cancer e.g. lung cancer and colon cancer, nerve cell disease
CC   e.g. Alzheimer's disease and Parkinson's disease, Usher syndrome,
CC   atrophia areata, angiogenesis, inflammatory disease e.g asthma and
CC   rheumatoid arthritis, ischaemia, and in various diagnostic assays. The
CC   present sequence represents an cDNA which encodes a PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 178 T; 274 G; 0 U; 0 Other;

Query Match             99.6%;  Score 232;  DB 7;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 5.8e-54;
Matches  232;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

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Db    492 TATGTCTGCACCCTGTCCCCACCCTGACCCTCCAGGACTCCCACC 551

Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCAACCCTCTCTGC 180
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RESULT 15

ACD20018

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AC   ACD20018;
XX
DT   25-AUG-2003  (first entry)
XX
DE   Human secreted / transmembrane polypeptide PRO232 cDNA.
XX
KW   Human; ss; gene; gene therapy; tumour; tissue typing; obesity; diabetes;
KW   hypoinsulinaemia; hyperinsulinaemia; vascular permeability;
KW   cardiac insufficiency disorder; immune response; regeneration; cartilage;
KW   auditory hair cell; hearing loss; bone disorder; sports injury;
KW   arthritis.
XX
OS   Homo sapiens.
XX
PN   US2003036060-A1.
XX
PD   20-FEB-2003.
XX
PF   12-JUL-2001; 2001US-00904859.
XX
PR   17-SEP-1997;  97US-0059113P.
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PR 17-SEP-1997;   97US-0059115P.
PR 17-SEP-1997;   97US-0059117P.
PR 17-SEP-1997;   97US-0059119P.
PR 17-SEP-1997;   97US-0059121P.
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PR 17-NOV-1997;   97US-0065846P.
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PR 10-SEP-1998;   98US-0099803P.
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PR 17-SEP-1998;   98WO-US019437.
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PR 20-OCT-1998;   98US-0109304P.
PR 01-DEC-1998;   98WO-US025108.
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PR 26-JUL-1999;   99US-0145598P.
PR 28-JUL-1999;   99US-0146222P.
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PR 13-SEP-1999;   99US-0020944.
PR 15-SEP-1999;   99WO-US021090.
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PR 05-OCT-1999;   99WO-US023089.
PR 29-NOV-1999;   99WO-US028214.
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PR 01-DEC-1999;   99WO-US028301.

PR 02-DEC-1999;   99WO-US028564.
PR 02-DEC-1999;   99WO-US028565.
PR 16-DEC-1999;   99WO-US030095.
PR 20-DEC-1999;   99WO-US030911.
PR 20-DEC-1999;   99WO-US030999.
PR 05-JAN-2000;   2000WO-US000219.
PR 11-FEB-2000;   2000WO-US003565.
PR 22-FEB-2000;   2000WO-US004414.
PR 24-FEB-2000;   2000WO-US005004.
PR 02-MAR-2000;   2000WO-US005841.
PR 20-MAR-2000;   2000WO-US007377.
PR 30-MAR-2000;   2000WO-US008439.
PR 22-MAY-2000;   2000WO-US014042.
PR 02-JUN-2000;   2000WO-US015264.
PR 28-JUL-2000;   2000WO-US020710.
PR 24-AUG-2000;   2000WO-US023328.
PR 18-SEP-2000;   2000US-00665350.

XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI Filvaroff B,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI Williams PM,   Wood WI;
XX
DR WPI; 2003-417923/39.
DR P-PSDB; AB014868.
XX
PT Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
PT antagonists of polypeptide, and as molecular weight markers.
XX
PS Claim 2; Fig 8; 469pp; English.
XX
CC The invention relates to an isolated, secreted and transmembrane
CC polypeptide, termed PRO polypeptide. The polypeptide is useful for
CC identifying agonists or antagonists of the polypeptide, for preparing
CC variants of the polypeptide, as molecular weight markers for protein
CC electrophoresis purpose and the nucleic acid is useful for recombinantly
CC expressing those markers. The polypeptide is also useful as therapeutic
CC agent. PRO is useful in assays to identify other proteins or molecules
CC involved in binding interaction. The nucleic acid is useful as
CC hybridisation probes, in chromosome and gene mapping, in generation of
CC antisense RNA and DNA, in the preparation of PRO polypeptide, for
CC generating transgenic animals or knockout animals which in turn are
CC useful in the development and screening of therapeutically useful
CC reagents, to construct hybridisation probes for mapping the gene which
CC encodes the PRO and for the genetic analysis of individuals with genetic
CC disorders, in gene therapy, for chromosome identification, as chromosome
CC marker, and for generating probes for polymerase chain reaction (PCR),
CC Northern analysis, Southern analysis and Western analysis. PRO antibody
CC is useful in diagnostic assays for PRO, e.g. detecting its expression in
CC specific cells, tissues or serum and for affinity purification of PRO
CC from recombinant cell culture or natural sources. The polypeptide or its
CC antibody is useful for the preparation of medicament for treating
CC conditions which is responsive to the PRO polypeptide or anti-PRO
CC antibody e.g. tumour. The polypeptide and the nucleic acid is useful for
CC tissue typing. The polypeptide is useful for treating obesity, diabetes
CC or hypo- or hyper-insulinaemia and cardiac insufficiency disorders, for
CC inhibiting tumour growth, enhances vascular permeability and immune
CC response, for inducing regeneration of auditory hair cells and for
CC treating hearing loss in mammals and for treating bone and/or cartilage
CC disorders such as sports injuries and arthritis. The present sequence
CC represents cDNA encoding a human secreted and transmembrane PRO
CC polypeptide
XX
SQ Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%;   Score 232; DB 7; Length 960;
Best Local Similarity   99.6%;   Pred. No. 5.8e-54;
Matches 232;   Conservative   0;   Mismatches   1;   Indels   0;   Gaps   0;

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                    GenCore version 5.1.6
          Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:     September 18, 2004, 06:05:35 ; Search time 27.2191 Seconds
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Post-processing: Minimum Match 0%
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                 Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

                              SUMMARIES
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Result No.	Score	% Query Match	Length	DB	ID	Description
1	232	99.6	960	4	US-09-907-794A-17	Sequence 17, Appl
2	232	99.6	960	4	US-09-905-125A-17	Sequence 17, Appl
3	232	99.6	960	4	US-09-902-775A-17	Sequence 17, Appl
4	177	76.0	998	3	US-09-203-939-1	Sequence 1, Appl
5	177	76.0	998	3	US-09-251-835-1	Sequence 1, Appl
6	177	76.0	998	3	US-09-318-503-1	Sequence 1, Appl
7	177	76.0	998	3	US-09-038-261A-1	Sequence 1, Appli
8	177	76.0	998	4	US-09-564-329A-1	Sequence 1, Appli
9	42.4	18.2	7218	2	US-08-232-463-14	Sequence 14, Appl
10	42	18.0	230	2	US-08-675-508-24	Sequence 24, Appl
c 11	35.4	15.2	289	3	US-09-007-005-17	Sequence 17, Appl
c 12	35.4	15.2	289	3	US-09-244-796-17	Sequence 17, Appl
c 13	32.6	14.0	51552	4	US-09-733-294A-30	Sequence 30, Appl
c 14	32.4	13.9	1418	4	US-09-976-594-1043	Sequence 1043, Ap
15	32.4	13.9	4403765	3	US-09-103-840A-2	Sequence 2, Appli
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c 18	32	13.7	1926	4	US-09-410-399-3	Sequence 3, Appli
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c 30	32	13.7	16080	5	PCT-US93-04648-15	Sequence 48, Appl
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37	31	13.3	2592	1	US-10-020-079-37	Sequence 31, Appl
38	31	13.3	2631	1	US-10-020-079-31	Sequence 29, Appl
39	31	13.3	2856	1	US-10-020-079-29	Sequence 35, Appl
40	31	13.3	2874	1	US-10-020-079-35	Sequence 33, Appl
41	31	13.3	2931	1	US-10-020-079-33	Sequence 27, Appl
42	31	13.3	2949	1	US-10-020-079-27	Sequence 25, Appl
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                              ALIGNMENTS

RESULT 1
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; Sequence 17, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT: Ashkenazi, Avi
;  APPLICANT: Botstein, David
;  APPLICANT: Desnoyers, Luc
;  APPLICANT: Eaton, Dan L.
;  APPLICANT: Ferrara, Napoleone
;  APPLICANT: Filvaroff, Ellen
;  APPLICANT: Fong, Sherman
;  APPLICANT: Gao, Wei-Qiang
;  APPLICANT: Gerber, Hanspeter
;  APPLICANT: Gerritsen, Mary E.
;  APPLICANT: Goddard, A.
;  APPLICANT: Godowski, Paul J.
;  APPLICANT: Grimaldi, Christopher J.
;  APPLICANT: Gurney, Austin L.
;  APPLICANT: Hillan, Kenneth J.
;  APPLICANT: Kljavin, Ivar J.
;  APPLICANT: Mather, Jennie P.
;  APPLICANT: Pan, James
;  APPLICANT: Paoni, Nicholas F.
;  APPLICANT: Roy, Margaret Ann
;  APPLICANT: Stewart, Timothy A.
;  APPLICANT: Tumas, Daniel
;  APPLICANT: Williams, P. Mickey
;  APPLICANT: Wood, William. J.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION: Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/907,794A
;  CURRENT FILING DATE: 2001-07-17
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
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; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
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; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-905-125A-17

Query Match   99.6%; Score 232; DB 4; Length 960;
Best Local Similarity   99.6%; Pred. No. 1.4e-59;
Matches 232; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Qy  121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTGC 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTGC 611

Qy  181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
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Db  612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664
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RESULT 3
US-09-902-775A-17

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-794A-17

Query Match   99.6%; Score 232; DB 4; Length 960;
Best Local Similarity   99.6%; Pred. No. 1.4e-59;
Matches 232; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Db  432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy   61 TATGTCTGCNCCCCTGTCCCCCACCCTGACCCTCCCAGGACTCCCACC 120
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Db  492 TATGTCTGCACCCCTGTCCCCCACCCTGACCCTCCCAGGACTCCCACC 551

Qy  121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTGC 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTGC 611

Qy  181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
         |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664
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RESULT 2
US-09-905-125A-17
; Sequence 17, Application US/09905125A
; Patent No. 666376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann

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Query Match            99.6%;  Score 232;  DB 4;  Length 960;
Best Local Similarity  99.6%;  Pred. No. 1.4e-59;
Matches  232;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;

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Db  432 CTGGCCCAGTGGGAGCCGTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy   61 TATGTCTGCNCCCTGCCCCACCCTGACCCTCCAGGACTCCCACC 120
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Db  492 TATGTGTGCACCCTGCCCCACCCTGACCCTCCAGGACTCCCACC 551

Qy  121 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCCTCCACCCTCTCTGC 180
          |||||||||||||||||||||||||||||||||||||||||||||| ||||||||||
Db  552 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTCTGC 611

Qy  181 TGCTGTTTCCATGGCCAGCATTCTCCACCCTTAACCCTGCTCAGGCACCT 233
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Db  612 TGCTGTTTCCATGGCCAGCATTCTCCACCCTTAACCCTGCTCAGGCACCT 664
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RESULT 4
US-09-203-939-1
; Sequence 1, Application US/09203939
; Patent No. 6258939
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54USI1
; CURRENT APPLICATION NUMBER: US/09/203,939
; CURRENT FILING DATE: 2000-12-02
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 998
; TYPE: DNA
; ORGANISM: HUMAN PSCA (hPSCA)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (543)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (580)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (584)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (604)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (608)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (615)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (636)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (640)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature

; Sequence 17, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-902-775A-17

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;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (543)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (580)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (584)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (604)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (608)
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Query Match   76.0%; Score 177; DB 3; Length 998;
Best Local Similarity 88.6%; Pred. No. 2.7e-43;
Matches 209; Conservative 0; Mismatches 24; Indels 3; Gaps 2;

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Db  461 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTTTGACCATG 520

Qy   61 TATGTCTGCNCCCCTGTCCCC--ACCCTGACCCTCCCAT-GGCCCTCTCCAGGACTCCC 117
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Db  521 TATGTTTGCACCCCTTTTCCCNAACCCTGACCTTCCCATGGGCCTTTTCCAGGATTCCN 580

Qy  118 ACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTC 177
          ||| |||||||||| | ||||||| ||| ||||| ||||||||||||||||||| | |
Db  581 ACCNGGCAGATCAGTTTTAGTGANACANATCCGNTGCAGATGGCCCCTCCAACCNTTTN 640

Qy  178 TGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
          || || ||||||||||||||||||| | ||||||||||||||| | |||||||| |
Db  641 TGTTGNTGTTTCCATGGCCCAGCATTTTCCACCCTTAACCCTGTTGTTCAGGCACTT 696
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RESULT 5
US-09-251-835-1
; Sequence 1, Application US/09251835A
; Patent No. 6261789
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54USI2
; CURRENT APPLICATION NUMBER: US/09/251,835A
; CURRENT FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 998
; TYPE: DNA
; ORGANISM: HUMAN PSCA (hPSCA)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (543)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (580)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (584)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (604)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (608)

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;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (615)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (636)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (640)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (646)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (697)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (926)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
US-09-251-835-1
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Query Match   76.0%; Score 177; DB 3; Length 998;
Best Local Similarity 88.6%; Pred. No. 2.7e-43;
Matches 209; Conservative 0; Mismatches 24; Indels 3; Gaps 2;

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Db  461 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTTTGACCATG 520

Qy   61 TATGTCTGCNCCCCTGTCCCC--ACCCTGACCCTCCCAT-GGCCCTCTCCAGGACTCCC 117
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Db  521 TATGTTTGCACCCCTTTTCCCNAACCCTGACCTTCCCATGGGCCTTTTCCAGGATTCCN 580

Qy  118 ACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTC 177
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Db  581 ACCNGGCAGATCAGTTTTAGTGANACANATCCGNTGCAGATGGCCCCTCCAACCNTTTN 640

Qy  178 TGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
          || || ||||||||||||||||||| | ||||||||||||||| | |||||||| |
Db  641 TGTTGNTGTTTCCATGGCCCAGCATTTTCCACCCTTAACCCTGTTGTTCAGGCACTT 696
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RESULT 6
US-09-318-503-1
; Sequence 1, Application US/09318503A
; Patent No. 6261791
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54USI3
; CURRENT APPLICATION NUMBER: US/09/318,503A
; CURRENT FILING DATE: 1999-05-25
; EARLIER APPLICATION NUMBER: 08/814,279
; EARLIER FILING DATE: 1997-03-10
; EARLIER APPLICATION NUMBER: 60/071,141
; EARLIER FILING DATE: 1998-01-12
; EARLIER APPLICATION NUMBER: 60/074,675
; EARLIER FILING DATE: 1998-02-13
; EARLIER APPLICATION NUMBER: 09/038,261
; EARLIER FILING DATE: 1998-03-10
; EARLIER APPLICATION NUMBER: 09/203,939
; EARLIER FILING DATE: 1998-12-02
; EARLIER APPLICATION NUMBER: 09/251,835
; EARLIER FILING DATE: 1999-02-17
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 998
; TYPE: DNA
; ORGANISM: HUMAN PSCA (hPSCA)
; FEATURE:
; NAME/KEY: misc_feature

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LOCATION: (543)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (580)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (584)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (604)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (608)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (615)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (636)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (640)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (646)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (697)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (926)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)

US-09-318-503-1

Query Match         76.0%;  Score 177;  DB 3;  Length 998;
Best Local Similarity   88.6%;  Pred No. 2.7e-43;
Matches  209;  Conservative   0;  Mismatches  24;  Indels   3;  Gaps  2;

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Db  461 CTGGCCCAGTGGGAGCCTGCTGCCTGTTCCTGAGGCACATCCTAACGCAAGTTTGACCATG 520

Qy   61 TATGTCTGCNCCCCTGTCCCCC--ACCCTGACCTTCCCAT-GGCCCTCTCCAGGACTCCC 117
          ||||| ||| ||||| ||||    ||||||||||||||| ||||||| ||  ||||
Db  521 TATGTTTGCACCCCTTTCCCNAACCCTGACCTTCCCATGGCCCTCCAACCCTC 580

Qy  118 ACCCGGCAGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGGCCCTCTCCAGGCACT 177
          || |||||||||| | | |||||  ||| |||| ||||||||||||||  ||  | | |
Db  581 ACCNGGCAGATCAGTTTTAGTGANACANATCCGNTGCAGATGGCCCCTCCAACCNTTN 640

Qy  178 TGCTGCTGTTTCCATGGCCCAGCATTTTCCACCCTTAACCCTGTCAGGCACCT 233
          || || |||||||||||||| ||||||||||||||||||||||| ||||||| 
Db  641 TGTTGNTGTTTCCATGGCCCCAGCATTTTCCACCCTTAACCCTGTTCAGGCACTT 696

RESULT 7
US-09-038-261A-1
; Sequence 1, Application US/09038261A
; Patent No. 6267960
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
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Right column

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SEQ ID NO 1
LENGTH: 998
TYPE: DNA
ORGANISM: HUMAN PSCA (hPSCA)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (543)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (580)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (584)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (604)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (608)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (615)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (636)
OTHER INFORMATION: any nucleotide (i.e. a, c, g, or t)
NAME/KEY: misc_feature
LOCATION: (640)
OTHER INFORMATION: any nucleotide (i.e. a, c, g, or t)
NAME/KEY: misc_feature
LOCATION: (646)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (697)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (926)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)

US-09-038-261A-1

Query Match         76.0%;  Score 177;  DB 3;  Length 998;
Best Local Similarity   88.6%;  Pred. No. 2.7e-43;
Matches  209;  Conservative   0;  Mismatches  24;  Indels   3;  Gaps  2;

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Db  461 CTGGCCCAGTGGGAGCCTGCTGCCTGTTCCTGAGGCACATCCTAACGCAAGTTTGACCATG 520

Qy   61 TATGTCTGCNCCCCTGTCCCCC--ACCCTGACCTTCCCAT-GGCCCTCTCCAGGACTCCC 117
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Db  521 TATGTTTGCACCCCTTTCCCNAACCCTGACCTTCCCATGGCCCTCCAACCCTC 580

Qy  118 ACCCGGCAGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGGCCCTCTCCAGGCACT 177
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Db  581 ACCNGGCAGATCAGTTTTAGTGANACANATCCGNTGCAGATGGCCCCTCCAACCNTTN 640

Qy  178 TGCTGCTGTTTCCATGGCCCAGCATTTTCCACCCTTAACCCTGTCAGGCACCT 233
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Db  641 TGTTGNTGTTTCCATGGCCCCAGCATTTTCCACCCTTAACCCTGTTCAGGCACTT 696

RESULT 8
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US-09-564-329A-1

; Sequence 1, Application US/09564329A
; Patent No. 6541212
; GENERAL INFORMATION:
;　APPLICANT: Reiter, Robert E.
;　APPLICANT: Witte, Owen N.
;　APPLICANT: Saffran, Douglas C.
;　TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
;　FILE REFERENCE: 30435.54USI4
;　CURRENT APPLICATION NUMBER: US/09/564,329A
;　CURRENT FILING DATE: 2000-05-03
;　PRIOR APPLICATION NUMBER: 09/359,326
;　PRIOR FILING DATE: 1999-07-20
;　PRIOR APPLICATION NUMBER: 08/814,279
;　PRIOR FILING DATE: 1997-03-10
;　PRIOR APPLICATION NUMBER: 60/071,141
;　PRIOR FILING DATE: 1998-01-12
;　PRIOR APPLICATION NUMBER: 60/074,675
;　PRIOR FILING DATE: 1998-02-13
;　PRIOR APPLICATION NUMBER: 60/120,536
;　PRIOR FILING DATE: 1999-02-17
;　PRIOR APPLICATION NUMBER: 60/124,658
;　PRIOR FILING DATE: 1999-03-16
;　PRIOR APPLICATION NUMBER: 09/038,261
;　PRIOR FILING DATE: 1998-03-10
;　PRIOR APPLICATION NUMBER: 09/203,939
;　PRIOR FILING DATE: 1998-12-02
;　PRIOR APPLICATION NUMBER: 09/251,835
;　PRIOR FILING DATE: 1999-02-17
;　PRIOR APPLICATION NUMBER: 09/308,503
;　PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
;
; SEQ ID NO 1
;　LENGTH: 998
;　TYPE: DNA
;　ORGANISM: HUMAN PSCA (hPSCA)
;　FEATURE:
;　NAME/KEY: misc_feature
;　LOCATION: (543)
;　OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;　NAME/KEY: misc_feature
;　LOCATION: (580)
;　OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;　NAME/KEY: misc_feature
;　LOCATION: (584)
;　OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;　NAME/KEY: misc_feature
;　LOCATION: (604)
;　OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;　NAME/KEY: misc_feature
;　LOCATION: (608)
;　OTHER INFORMATION: any nucleotide (i.e, a, c, g or t)
;　NAME/KEY: misc_feature
;　LOCATION: (615)
;　OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;　NAME/KEY: misc_feature
;　LOCATION: (636)
;　OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;　NAME/KEY: misc_feature
;　LOCATION: (640)
;　OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;　NAME/KEY: misc_feature
;　LOCATION: (646)
;　OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;　NAME/KEY: misc_feature
;　LOCATION: (697)
;　OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;　NAME/KEY: misc_feature
;　LOCATION: (926)
;　OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)

US-09-564-329A-1

Query Match　　　　　　76.0%;　Score 177;　DB 4;　Length 998;
Best Local Similarity　88.6%;　Pred. No. 2.7e-43;
Matches 209;　Conservative　0;　Mismatches 24;　Indels　3;　Gaps　2;

Qy　　　1 CTGGCCAGTGGGAGCCTGTTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
　　　　　||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db　　461 CTGGCCAGTGGGAGCCTGTTCCTGGTTCCTGAGGCACATCCTAACGCAAGTTTGACCATG 520

Qy　　　61 TATGTCTGCNCCCTGTCCCCC--ACCCTGACCTCCCAT-GGCCCTCTCCAGGACTCCC 117
　　　　　||||||||| ||| |||||| |||||||||||| |||||||||||||||||||
Db　　521 TATGTTTGCACCCCTTTCCCNAACCCTGACCTTCCCATGGGCCTTTTCCAGGATTCCN 580

Qy　　118 ACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTC 177
　　　　　||||||| |||||||||| ||||||| || ||||||||||||| |||||||||||||
Db　　581 ACCNGGCAGATCAGTTTTAGTGANACANATCCGCNTGCAGATGGCCCCTCCAACCNTTTN 640

Qy　　178 TGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTCTGCTCAGGCACCT 233
　　　　　||||||||||||||||||||||||||||||||| |||||||||||||||||||||||
Db　　641 TGTTGNTGTTTCCATGGCCCAGCATTTTCCACCCTTAACCCTGTTCTGTTCAGGGACTT 696

RESULT 9
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
;　APPLICANT: DORNER, F.
;　APPLICANT: SCHEIFLINGER, F.
;　APPLICANT: FALKNER, F. G.
;　TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
;　NUMBER OF SEQUENCES: 52
;　CORRESPONDENCE ADDRESS:
;　ADDRESSEE: Foley & Lardner
;　STREET: 1800 Diagonal Road, Suite 500
;　CITY: Alexandria
;　STATE: VA
;　COUNTRY: USA
;　ZIP: 22313-0299
;　COMPUTER READABLE FORM:
;　MEDIUM TYPE: Floppy disk
;　COMPUTER: IBM PC compatible
;　OPERATING SYSTEM: PC-DOS/MS-DOS
;　SOFTWARE: PatentIn Release #1.0, Version #1.25
;　CURRENT APPLICATION DATA:
;　APPLICATION NUMBER: US/08/232,463
;　FILING DATE:
;　CLASSIFICATION: 435
;　PRIOR APPLICATION DATA:
;　APPLICATION NUMBER: US/07/935,313
;　FILING DATE:
;　APPLICATION NUMBER: EP 91 114 300.6
;　FILING DATE: 26-AUG-1991
;　ATTORNEY/AGENT INFORMATION:
;　NAME: BENT, Stephen A.
;　REGISTRATION NUMBER: 29,768
;　REFERENCE/DOCKET NUMBER: 30472/114 IMMU
;　TELECOMMUNICATION INFORMATION:
;　TELEPHONE: (703)836-9300
;　TELEFAX: (703)683-4109
;　TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
;　SEQUENCE CHARACTERISTICS:
;　LENGTH: 7218 base pairs
;　TYPE: nucleic acid
;　STRANDEDNESS: single
;　TOPOLOGY: linear
;　IMMEDIATE SOURCE:
;　CLONE: pT2gpt-Fls
US-08-232-463-14

Query Match　　　　　18.2%;　Score 42.4;　DB 1;　Length 7218;

Best Local Similarity 4.6%; Pred. No. 0.0032; Indels 0; Gaps 0;
Matches 10; Conservative 130; Mismatches 77;

Qy   9 GTGGGAGCCTGTCTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTG 68
            | ||||||| || : : :: : : ::::::::::YYYYYYYYYYYYYYYYYY
Db   1052 GAGGGAGCTTGGCATYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1111

Qy   69 CNCCCCTGTCCCCCACCCTGACCCTCCATGGCCCTCCAGGACTCCCACCCGGCGCAGAT 128
            : : :::: :::::::::::::YYYYYYYYYYYYYYYYY : : ::: : : ::::
Db   1112 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1171

Qy   129 CAGCTCTAGTGACACAGATCCGCCTGCCAGATGGCCCCTCCAACCCTCTCTGCCTCGTTT 188
            : :::: : :: : :: : ::: ::::::YYYYYYYYYYYYYYYYYY :: ::: ::
Db   1172 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1231

Qy   189 CCATGGCCCAGCATTCCCACCCTTAACCCTGTGCTC 225
            :: ::::::: ::::::::::::::YYYYYYYYYYYYYY
Db   1232 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1268

RESULT 10
US-08-675-508-24
; Sequence 24, Application US/08675508
; Patent No. 5856136
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL HUMAN STEM CELL ANTIGENS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/675,508
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0066 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 230 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
;   LIBRARY: BLADTUT02
;   CLONE: 1314679
US-08-675-508-24

Query Match   18.0%; Score 42; DB 2; Length 230;
Best Local Similarity 100.0%; Pred. No. 0.0015; Indels 0; Gaps 0;
Matches 42; Conservative 0; Mismatches 0;

Qy   1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 42
            ||||||||||||||||||||||||||||||||||||||||||
Db   189 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 230

RESULT 11
US-09-007-005-17/c

; Sequence 17, Application US/09007005B
; Patent No. 6258558
; GENERAL INFORMATION:
; APPLICANT: Szostak, Jack W.
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihe
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; TITLE OF INVENTION: FUSIONS
; FILE REFERENCE: 00786/350003
; CURRENT APPLICATION NUMBER: US/09/007,005B
; CURRENT FILING DATE: 1998-01-14
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-27
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 289
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(289)
; OTHER INFORMATION: n = A,T,C or G
US-09-007-005-17

Query Match   15.2%; Score 35.4; DB 3; Length 289;
Best Local Similarity 4.5%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 90; Mismatches 99;

Qy   36 ACATCCTAACGCAAGTCTGACCATGTATGTCTGCNCCCCTGTCCCCCACCCTGACCCTCC 95
            |:::|: :| :: |: ::::|: |: ::|::|| |: : :: ::: : :::
Db   260 AYGYCYGYCYAYAYGIAYGYTTYAYCYGYCYAYGYCYTYGYSYNYNYSYNYNYSYNYNY 201

Qy   96 CATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGC 155
            :::: ::: ::: :::: :::::::: :::::::: : : :
Db   200 SYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNY 141

Qy   156 AGATGGCCCCTCCAACCCTCTCTGCCTCGTTTCCATGGCCCAGCATTCTCCACCCTTAA 215
            ::: ::::: ::::: ::: :: ::::: :::::: :: :::: :: ::
Db   140 SYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNY 81

Qy   216 CCCTGTGCTCAGGCACCT 233
            :: ::: : :::::: :
Db   80 SYNYNYSYNYNYSYNYNY 63

RESULT 12
US-09-244-796-17/c
; Sequence 17, Application US/09244796
; Patent No. 6281344
; GENERAL INFORMATION:
; APPLICANT: Szostak, Jack W.
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihe
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; TITLE OF INVENTION: FUSIONS
; FILE REFERENCE: 00786/350007
; CURRENT APPLICATION NUMBER: US/09/244,796
; CURRENT FILING DATE: 1999-02-05
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-27
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; EARLIER APPLICATION NUMBER: 09/007,005
; EARLIER FILING DATE: 1998-01-14
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 289

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;   TYPE: RNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Translation template
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(289)
;   OTHER INFORMATION: n = A,T,C or G
US-09-244-796-17

Query Match      15.2%;   Score 35.4;   DB 3;   Length 289;
Best Local Similarity  4.5%;  Pred. No. 0.15;
Matches       9;  Conservative   90;  Mismatches   99;  Indels   0;  Gaps   0;

Qy       36 ACATCCTAACGCAAGTCTGACCATGTATGTCTGCNCCCCTGTCCCCACCCTGACCCTCC    95
            |::|:.|:.::|::|:||:|:|:|.:|:||.|:.|::|:|.||:||:|:|::|:||
Db      260 AYGYCYGYCYAYAYGYAYGYTYTYAYCYGYCYAYGYCYTYGYSYNYNYSYNYNYSYNYNY  201

Qy       96 CATGGCCCCTCTCCAGGACTCCCACCCGCAGATCAGCTCTAGTGACACAGATCCGCTGC   155
            ::|::|:||:||:||.::|:|:|:   .:|:::      :|:|:
Db      200 SYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNY   141

Qy      156 AGATGGCCCCTCCAACCCTCTCTGCTGCTGTTCCATGGCCCAGCATTCTCCACCCTTAA   215
            ::|:::|:|||:||:::      .:   :||:     :||:||::|:::|:
Db      140 SYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNY    81

Qy      216 CCCTGTGCTCAGGCACCT 233
            ::|:.:|:|:||:||:
Db       80 SYNYNYSYNYNYSYNYNY  63


RESULT 13
US-09-733-294A-30/c
;   Sequence 30, Application US/09733294A
;   Patent No. 6492171
;   GENERAL INFORMATION:
;   APPLICANT: Brett P. Monia
;   APPLICANT: William Gaarde
;   APPLICANT: Susan M. Freier
;   APPLICANT: Edward V. Wancewicz
;   TITLE OF INVENTION: ANTISENSE MODULATION OF TERT EXPRESSION
;   FILE REFERENCE: ISPH-0527
;   CURRENT APPLICATION NUMBER: US/09/733,294A
;   CURRENT FILING DATE: 2000-12-07
;   PRIOR APPLICATION NUMBER: 09/572,423
;   PRIOR FILING DATE: 2000-05-16
;   NUMBER OF SEQ ID NOS: 108
;   SEQ ID NO 30
;   LENGTH: 51552
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: exon
;   LOCATION: (1)...(11492)
;   OTHER INFORMATION: exon 1
;   NAME/KEY: intron
;   LOCATION: (11493)...(11596)
;   OTHER INFORMATION: intron 1
;   NAME/KEY: exon
;   LOCATION: (11597)...(12950)
;   OTHER INFORMATION: exon 2
;   NAME/KEY: intron
;   LOCATION: (12951)...(21566)
;   OTHER INFORMATION: intron 2
;   NAME/KEY: exon
;   LOCATION: (21567)...(21762)
;   OTHER INFORMATION: exon 3
;   NAME/KEY: intron
;   LOCATION: (21763)...(23851)
;   OTHER INFORMATION: intron 3
;   NAME/KEY: exon
;   LOCATION: (23852)...(24032)
;   OTHER INFORMATION: exon 4
;   NAME/KEY: intron
;   LOCATION: (24033)...(24719)
;   OTHER INFORMATION: intron 4
;   NAME/KEY: exon
;   LOCATION: (24720)...(24899)
;   OTHER INFORMATION: exon 5
;   NAME/KEY: intron
;   LOCATION: (24900)...(25393)
;   OTHER INFORMATION: intron 5
;   NAME/KEY: exon
;   LOCATION: (25394)...(25549)
;   OTHER INFORMATION: exon 6
;   NAME/KEY: intron
;   LOCATION: (25550)...(30196)
;   OTHER INFORMATION: intron 6
;   NAME/KEY: exon
;   LOCATION: (30195)...(30292)
;   OTHER INFORMATION: exon 7
;   NAME/KEY: intron
;   LOCATION: (30293)...(31272)
;   OTHER INFORMATION: intron 7
;   NAME/KEY: exon
;   LOCATION: (31273)...(31358)
;   OTHER INFORMATION: exon 8
;   NAME/KEY: intron
;   LOCATION: (31359)...(33843)
;   OTHER INFORMATION: intron 8
;   NAME/KEY: unsure
;   LOCATION: 31450
;   OTHER INFORMATION: unknown
;   NAME/KEY: exon
;   LOCATION: (33844)...(33957)
;   OTHER INFORMATION: exon 9
;   NAME/KEY: intron
;   LOCATION: (33958)...(35941)
;   OTHER INFORMATION: intron 9
;   NAME/KEY: exon
;   LOCATION: (35942)...(36013)
;   OTHER INFORMATION: exon 10
;   NAME/KEY: intron
;   LOCATION: (36014)...(37884)
;   OTHER INFORMATION: intron 10
;   NAME/KEY: exon
;   LOCATION: (37885)...(38073)
;   OTHER INFORMATION: exon 11
;   NAME/KEY: intron
;   LOCATION: (38074)...(41874)
;   OTHER INFORMATION: intron 11
;   NAME/KEY: exon
;   LOCATION: (41875)...(42001)
;   OTHER INFORMATION: exon 12
;   NAME/KEY: intron
;   LOCATION: (42002)...(42881)
;   OTHER INFORMATION: intron 12
;   NAME/KEY: exon
;   LOCATION: (42882)...(42943)
;   OTHER INFORMATION: exon 13
;   NAME/KEY: intron
;   LOCATION: (42944)...(46129)
;   OTHER INFORMATION: intron 13
;   NAME/KEY: exon
;   LOCATION: (46130)...(46254)
;   OTHER INFORMATION: exon 14
;   NAME/KEY: intron
;   LOCATION: (46255)...(47035)
;   OTHER INFORMATION: intron 14
;   NAME/KEY: exon
;   LOCATION: (47036)...(47173)
;   OTHER INFORMATION: exon 15
;   NAME/KEY: intron
;   LOCATION: (47174)...(47709)
;   OTHER INFORMATION: intron 15
;   NAME/KEY: exon
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; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match   13.9%;   Score 32.4;   DB 3;   Length 4403765;
Best Local Similarity 54.8%;   Pred. No. 18;
  Matches   63; Conservative   0; Mismatches   52; Indels   0; Gaps   0;

Qy   66 CTGCNCCCTGTCCCCACCCTGACCCTCCCATGGCCTTCCAGGACTCCACCCGGCA 125
           ||||| |||||||||||||||||||||||||||| ||| |||| ||||||| ||||
Db 2386068 CGGTCCCGGCCCGGCGGTCCCCGTCCCCTGGCCTCCCACCGCCCGGCACCGCCGGCAC 2386127

Qy   126 GATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTCTGC 180
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Db 2386128 CGCCAGCCCCGCGTCACCGATCAGCAGCCCCGCCCGCCCCCAGCCCGCCCGGCC 2386182

Search completed: September 18, 2004, 19:23:32
Job time : 35.2191 secs

; LOCATION: (47710)...(50544)
; OTHER INFORMATION: exon 16
US-09-733-294A-30

Query Match   14.0%;   Score 32.6;   DB 4;   Length 51552;
Best Local Similarity 54.2%;   Pred. No. 4.5;
  Matches   65; Conservative   0; Mismatches   55; Indels   0; Gaps   0;

Qy   66 CTGCNCCCTGTCCCCACCCTGACCCTCCCATGGCCCTCTTCCAGGACTCCACCCGGCA 125
           ||||| ||||||||||||||||||||| || ||||||||||
Db   37223 CTGTGGCCCCGGCGGTCCCCGTCCCCTTCCTGTGGCCTGGCCTGGGCCAGCT 37164

Qy   126 GATCAGCTCTAGTGACACAGATCCGCTGCGAGATGGCCCCTCCAACCCTCTCTGCTGCTG 185
           ||||||| ||
Db   37163 GCGCAGCTCCCCCGGTGCATTCCCAGCTCCCTGTGGGCACCCCTTTCCTGTTACATGGCTG 37104

RESULT 14
US-09-976-594-1043/c
; Sequence 1043, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 1043
; LENGTH: 1418
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 1383263.10
; NAME/KEY: unsure
; LOCATION: 382
; OTHER INFORMATION: a, t, c, g, or other
US-09-976-594-1043

Query Match   13.9%;   Score 32.4;   DB 4;   Length 1418;
Best Local Similarity 72.4%;   Pred. No. 1.8;
  Matches   42; Conservative   0; Mismatches   16; Indels   0; Gaps   0;

Qy   163 CCCTCCAACCCTCTCTGCTGCTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTG 220
           |||| |||| ||| |||||||||||||||||||||| ||||| |||||||||||||
Db   1415 CCCTGGAAACCTCACGGCGTGCAATCTCCAAGGCCCAGCACTGCCCACCCTGCACACAG 1358

RESULT 15
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis

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                GenCore version 5.1.6
        Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:        September 18, 2004, 06:17:58 ; Search time 174.622 Seconds
                                              (without alignments)
                                        6734.858 Million cell updates/sec

Title:         US-09-079-874-7
Perfect score: 233
Sequence:      1 CTGGCCCAGTGGGAGCCTGT..........AACCCTGTGCTCAGGCACCT 233

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched:      3327077 seqs, 2523723180 residues

Total number of hits satisfying chosen parameters:    6654154

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :     Published Applications_NA:*
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                9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
               10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
               11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
               12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
               13: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq2:*
               14: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
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               18: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
               19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result         %  Query
No.   Score  Match Length DB  ID                  Description
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1     232  99.6   233   11  US-09-080-140-7      Sequence 7, Appl
2     232  99.6   960    9  US-09-909-320-17     Sequence 17, Appl
3     232  99.6   960    9  US-09-909-088B-17    Sequence 17, Appl
4     232  99.6   960    9  US-09-905-291A-17    Sequence 17, Appl
5     232  99.6   960    9  US-09-907-853-17     Sequence 17, Appl
6     232  99.6   960    9  US-09-907-824-17     Sequence 17, Appl
7     232  99.6   960    9  US-09-907-841-17     Sequence 17, Appl
8     232  99.6   960   10  US-09-904-011-17     Sequence 17, Appl
9     232  99.6   960   10  US-09-906-742-17     Sequence 17, Appl
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12    232  99.6   960   10  US-09-907-942-17     Sequence 17, Appl
13    232  99.6   960   10  US-09-904-859-17     Sequence 17, Appl
14    232  99.6   960   10  US-09-909-204-17     Sequence 17, Appl
15    232  99.6   960   10  US-09-904-820-17     Sequence 17, Appl
16    232  99.6   960   10  US-09-904-786-17     Sequence 17, Appl
17    232  99.6   960   10  US-09-906-646-17     Sequence 17, Appl
18    232  99.6   960   10  US-09-906-700-17     Sequence 17, Appl
19    232  99.6   960   10  US-09-903-786-17     Sequence 17, Appl
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22    232  99.6   960   10  US-09-904-119-17     Sequence 17, Appl
23    232  99.6   960   10  US-09-904-956-17     Sequence 17, Appl
24    232  99.6   960   10  US-09-902-736-17     Sequence 17, Appl
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35    232  99.6   960   10  US-09-905-088-17     Sequence 17, Appl
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37    232  99.6   960   10  US-09-905-075-17     Sequence 17, Appl
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42    232  99.6   960   10  US-09-902-615-17     Sequence 17, Appl
43    232  99.6   960   10  US-09-903-925-17     Sequence 17, Appl
44    232  99.6   960   10  US-09-906-760A-17    Sequence 17, Appl
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RESULT 1
US-09-080-140-7
; Sequence 7, Application US/09080140
; Publication No. US20040018553A1
GENERAL INFORMATION:
   APPLICANT:  BILLING-MEDEL, PATRICIA
   APPLICANT:  COHEN, MAURICE
   APPLICANT:  COLPITTS, TRACEY L.
   APPLICANT:  FRIEDMAN, PAULA N.
   APPLICANT:  GORDON, JULIAN
   APPLICANT:  GRANADOS, EDWARD N.
   APPLICANT:  HODGES, STEVEN C.
   APPLICANT:  KLASS, MICHAEL R.
   APPLICANT:  KRATOCHVIL, JON D.
   APPLICANT:  ROBERTS-RAPP, LISA
   APPLICANT:  RUSSELL, JOHN C.
   APPLICANT:  STROUPE, STEPHEN D.
   TITLE OF INVENTION:  REAGENTS AND METHODS USEFUL
   TITLE OF INVENTION:  FOR DETECTING DISEASES OF THE PROSTATE
   NUMBER OF SEQUENCES:  31
   CORRESPONDENCE ADDRESS:
     ADDRESSEE:  Abbott Laboratories
     STREET:  100 Abbott Park Road
     CITY:  Abbott Park
     STATE:  IL
     COUNTRY:  USA
     ZIP:  60064-3500
   COMPUTER READABLE FORM:
     MEDIUM TYPE: Diskette
     COMPUTER: IBM Compatible
     OPERATING SYSTEM: DOS
     SOFTWARE: FastSEQ for Windows Version 2.0
   CURRENT APPLICATION DATA:
     APPLICATION NUMBER: US/09/080,140
     FILING DATE:
     CLASSIFICATION:
   PRIOR APPLICATION DATA:
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APPLICATION NUMBER: 08/856,653
FILING DATE: 15-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6105.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 233 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: base_polymorphism
LOCATION: 70
OTHER INFORMATION: /note= " N' represents an A or G or
OTHER INFORMATION: T or C polymorphism at this position"
US-09-080-140-7

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Matches 233; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCACCCTTAACCCTGTGCTCAGGCACCT 233
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RESULT 2
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; Patent No. US20020132240A1
; GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909,320
CURRENT FILING DATE: 2002-01-04
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
LENGTH: 960
TYPE: DNA
ORGANISM: Homo sapiens
US-09-909-320-17

Query Match   99.6%;   Score 232; DB 9;   Length 960;
Best Local Similarity   99.6%;   Pred. No. 2.1e-60;
Matches 232; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCACCCTTAACCCTGTGCTCAGGCACCT 233
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RESULT 3
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; Patent No. US20020146709A1
; GENERAL INFORMATION:

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RESULT 4
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; Sequence 17, Application US/09905291A
; Patent No. US2002016O374A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
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; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-088B-17

Query Match   99.6%;   Score 232; DB 9; Length 960;
Best Local Similarity   99.6%;   Pred. No. 2.1e-60;

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;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/902,853
;   CURRENT FILING DATE: 2001-07-10
;   PRIOR APPLICATION NUMBER: US/09/665,350
;   PRIOR FILING DATE: 2000-09-18
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
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;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
;   SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-902-853-17

Query Match             99.6%;  Score 232;  DB 9;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 2.1e-60;
Matches  232;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

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Qy      61 TATGTCTGCNCCCCTGCNCCCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACC 120
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Db     492 TATGTCTGCACCCCTGTCCCCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACC 551

Qy     121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGC 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGC 611

Qy     181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTGCTGCAGGCACCT 233
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTGCTGCAGGCACCT 664

RESULT 6
US-09-907-824-17
; Sequence 17, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
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Best Local Similarity 99.6%; Pred. No. 2.1e-60;
Matches 232; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy     1 CTGGCCCAGTGGGAGCGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  60
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Db   432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy    61 TATGTCTGCNCCCCTGTCCCCCACCCTGACCCTCCATGGCCCTTCCAGGACTCCCACC  120
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Db   612 TGCTGTTTCCATGGCCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  664
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RESULT 7
US-09-907-841-17
; Sequence 17, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,841
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05

APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,824
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423

SEQ ID NO 17
LENGTH: 960
TYPE: DNA
ORGANISM: Homo Sapien
US-09-907-824-17

Query Match 99.6%; Score 232; DB 9; Length 960;

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;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 423
;  SEQ ID NO 17
;    LENGTH: 960
;    TYPE: DNA
;    ORGANISM: Homo sapiens
US-09-907-841-17

Query Match         99.6%;  Score 232;  DB 9;  Length 960;
Best Local Similarity  99.6%;  Pred. No. 2.1e-60;
Matches  232;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;

Qy      1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGGCAAGTCTGACCATG 60
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Db    432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy     61 TATGTCTGCNCCCCTGTCCCCCACCCTGACCCTCCATGGCCCCTCCAGGACTCCCACC 120
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Db    492 TATGTCTGCACCCCTGTCCCCCACCCTGACCCTCCATGGCCCCTCCAGGACTCCCACC 551

Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCTGC 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCTGC 611

Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
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Db    612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 8
US-09-904-011-17
; Sequence 17, Application US/09904011
; Publication No. US2003003530A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT: Ashkenazi, Avi
;  APPLICANT: Botstein, David
;  APPLICANT: Desnoyers, Luc
;  APPLICANT: Eaton, Dan L.
;  APPLICANT: Ferrara, Napoleone
;  APPLICANT: Filvaroff, Ellen
;  APPLICANT: Fong, Sherman
;  APPLICANT: Gao, Wei-Qiang
;  APPLICANT: Gerber, Hanspeter
;  APPLICANT: Gerritsen, Mary E.
;  APPLICANT: Goddard, A.
;  APPLICANT: Godowski, Paul J.
;  APPLICANT: Grimaldi, Christopher J.
;  APPLICANT: Gurney, Austin L.
;  APPLICANT: Hillan, Kenneth, J.
;  APPLICANT: Kljavin, Ivar J.
;  APPLICANT: Mather, Jennie P.
;  APPLICANT: Pan, James
;  APPLICANT: Paoni, Nicholas F.
;  APPLICANT: Roy, Margaret Ann
;  APPLICANT: Stewart, Timothy A.
;  APPLICANT: Tumas, Daniel
;  APPLICANT: Williams, P. Mickey
;  APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
;  SEQ ID NO 17
;    LENGTH: 960
;    TYPE: DNA
;    ORGANISM: Homo Sapien
US-09-904-011-17

Query Match         99.6%;  Score 232;  DB 10;  Length 960;
Best Local Similarity  99.6%;  Pred. No. 2.1e-60;
Matches  232;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;

Qy      1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGGCAAGTCTGACCATG 60
            ||||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||
Db    432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy     61 TATGTCTGCNCCCCTGTCCCCCACCCTGACCCTCCATGGCCCCTCCAGGACTCCCACC 120
            ||||||||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db    492 TATGTCTGCACCCCTGTCCCCCACCCTGACCCTCCATGGCCCCTCCAGGACTCCCACC 551

Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCTGC 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCTGC 611

Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
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Db    612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 9
US-09-906-742-17
; Sequence 17, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT: Ashkenazi, Avi
;  APPLICANT: Botstein, David
;  APPLICANT: Desnoyers, Luc
;  APPLICANT: Eaton, Dan L.
;  APPLICANT: Ferrara, Napoleone
;  APPLICANT: Filvaroff, Ellen
;  APPLICANT: Fong, Sherman
;  APPLICANT: Gao, Wei-Qiang
;  APPLICANT: Gerber, Hanspeter
;  APPLICANT: Gerritsen, Mary E.
```

APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth. J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,742
CURRENT FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-906-742-17

Query Match   99.6%; Score 232; DB 10; Length 960;
Best Local Similarity   99.6%; Pred. No. 2.1e-60;
Matches 232; Conservative   0; Mismatches   0; Indels   1; Gaps   0;

Qy   1 CTGGGCCCAGTGGGAGCCTGTTCCTGGTTCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   432 CTGGGCCCAGTGGGAGCCTGTTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy   61 TATGTCTGCNCCCCTGTCCCCCACCTGACCCCTCCACTGCCCTTCCAGGACTCCCACC 120
            |||||||| |||||||||||||||||||||||||||||||||||||||||||||||||
Db   492 TATGTCTGCACCCCTGTCCCCCACCCTGACCCCTCCACTGCCCTTCTCCAGGACTCCCACC 551

Qy   121 CGGCAGATCAGCTCTAGTGACACAGATCGGCCTGCGAGATGGCCCTCCAACCCTCTCTGC 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCTCCAACCCTCTCTGC 611

Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
            ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 10
US-09-906-838-17
; Sequence 17, Application US/09906838
; Publication No. US20030027143A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,838
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02

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Page 8

RESULT 11
US-09-907-613-17
; Sequence 17, Application US/09907613
; Publication No. US20030027145A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,613
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-906-838-17

Query Match   99.6%;   Score 232; DB 10;   Length 960;
Best Local Similarity   99.6%;   Pred. No. 2.1e-60;
Matches 232;   Conservative   0;   Mismatches   1;   Indels   0;   Gaps   0;

Qy   1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
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Db   432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy   61 TATGTCTGCNCCCCTGTCCCCACCTGACCCTCCAGGACTCCACC 120
          |||||||||| |||||||||||||||||||||||||||||||||
Db   492 TATGTCTGCACCCCTGTCCCCACCTGACCCTCCAGGACTCCACC 551

Qy   121 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCTCCAACCCTCTGC 180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   552 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCTCCAACCCTCTGC 611

Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 12
US-09-907-942-17
; Sequence 17, Application US/09907942
; Publication No. US20030027146A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman

; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-907-613-17

Query Match   99.6%;   Score 232; DB 10;   Length 960;
Best Local Similarity   99.6%;   Pred. No. 2.1e-60;
Matches 232;   Conservative   0;   Mismatches   1;   Indels   0;   Gaps   0;

Qy   1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy   61 TATGTCTGCNCCCCTGTCCCCACCTGACCCTCCAGGACTCCACC 120
          |||||||||| |||||||||||||||||||||||||||||||||
Db   492 TATGTCTGCACCCCTGTCCCCACCTGACCCTCCAGGACTCCACC 551

Qy   121 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCTCCAACCCTCTGC 180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   552 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCTCCAACCCTCTGC 611

Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

```
;   APPLICANT:   Gao, Wei-Qiang
;   APPLICANT:   Gerber, Hanspeter
;   APPLICANT:   Gerritsen, Mary E.
;   APPLICANT:   Goddard, A.
;   APPLICANT:   Godowski, Paul J.
;   APPLICANT:   Grimaldi, Christopher J.
;   APPLICANT:   Gurney, Austin L.
;   APPLICANT:   Hillan, Kenneth, J.
;   APPLICANT:   Kljavin, Ivar J.
;   APPLICANT:   Mather, Jennie P.
;   APPLICANT:   Pan, James
;   APPLICANT:   Paoni, Nicholas F.
;   APPLICANT:   Roy, Margaret Ann
;   APPLICANT:   Stewart, Timothy A.
;   APPLICANT:   Tumas, Daniel
;   APPLICANT:   Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION:   Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/907,942
;   CURRENT FILING DATE:   2002-01-22
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE:   2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
;
SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-907-942-17

Query Match           99.6%;     Score 232;  DB 10;  Length 960;
Best Local Similarity   99.6%;   Pred. No. 2.1e-60;
Matches  232;   Conservative    0; Mismatches    1; Indels    0; Gaps    0;

Qy      1 CTGGGCCAGTGGGAGCCTGTCCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG    60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    432 CTGGGCCAGTGGGAGCCTGTCCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG   491

Qy     61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCAGGACTCCCACC   120
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Db    492 TATGTCTGCACCCCTGTCCCCACCCTGACCCTCCATGGCCCTCCAGGACTCCCACC  551
          ||||||||||||||||||||||||||||||||||||||||||
Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATCCGCTGCAGATGGCCCCTCCAACCCTCTGC  180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    552 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATCCGCTGCAGATGGCCCCTCCAACCCTCTGC  611

Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTCAGGCACCT  233
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Db    612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTCGTGCTCAGGGCCACCT  664
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RESULT 13
US-09-904-859-17
; Sequence 17, Application US/09904859
; Publication No. US20030036060A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,859
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
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;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-904-859-17

Query Match             99.6%;   Score 232;  DB 10;   Length 960;
Best Local Similarity   99.6%;   Pred. No. 2.1e-60;
Matches  232;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy      1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy     61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCATGGCCCTTCCCAGGACTCCCACC 120
          ||||||||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db    492 TATGTCTGCACCCCTGTCCCCACCCTGACCCTCCATGGCCCTTCCCAGGACTCCCACC 551

Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCTCCAACCCTCTCTGC 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCTCCAACCCTCTCTGC 611

Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 14
US-09-909-204-17
; Sequence 17, Application US/09909204
; Publication No. US20030036061A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/909,204
;   CURRENT FILING DATE: 2001-07-18
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
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;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-909-204-17

Query Match             99.6%;   Score 232;  DB 10;   Length 960;
Best Local Similarity   99.6%;   Pred. No. 2.1e-60;
Matches  232;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy      1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    432 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 491

Qy     61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCATGGCCCTTCCCAGGACTCCCACC 120
          ||||||||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db    492 TATGTCTGCACCCCTGTCCCCACCCTGACCCTCCATGGCCCTTCCCAGGACTCCCACC 551

Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCTCCAACCCTCTCTGC 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    552 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCTCCAACCCTCTCTGC 611

Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    612 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 664

RESULT 15
US-09-904-820-17
; Sequence 17, Application US/09904820
; Publication No. US20030036094A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
```

```
;   APPLICANT:  Fong, Sherman
;   APPLICANT:  Gao, Wei-Qiang
;   APPLICANT:  Gerber, Hanspeter
;   APPLICANT:  Gerritsen, Mary E.
;   APPLICANT:  Goddard, A.
;   APPLICANT:  Godowski, Paul J.
;   APPLICANT:  Grimaldi, Christopher J.
;   APPLICANT:  Gurney, Austin L.
;   APPLICANT:  Hillan, Kenneth J.
;   APPLICANT:  Kljavin, Ivar J.
;   APPLICANT:  Mather, Jennie P.
;   APPLICANT:  Pan, James
;   APPLICANT:  Paoni, Nicholas F.
;   APPLICANT:  Roy, Margaret Ann
;   APPLICANT:  Stewart, Timothy A.
;   APPLICANT:  Tumas, Daniel
;   APPLICANT:  Williams, P. Mickey
;   APPLICANT:  Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/904,820
;   CURRENT FILING DATE: 2001-07-13
;   PRIOR APPLICATION NUMBER: 09/665,350
;   PRIOR FILING DATE: 2000-09-18
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
;   SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-904-820-17
```

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Query Match          99.6%;   Score 232;   DB 10;   Length 960;
Best Local Similarity 99.6%;  Pred. No. 2.1e-60;
Matches 232;   Conservative  0;   Mismatches  1;   Indels  0;   Gaps  0;

Qy     1  CTGGCCCAGTGGGAGCCCTGTTCCTGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   432  CTGGCCCAGTGGGAGCCCTGTCCTGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  491
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```
Qy    61  TATGTCTGCNCCCTGTCCCCACCCTGACCCTCCCATGGCCCTCCAGGACTCCCACC  120
          ||||||||| |||||||||||||||||||||||||||||||||||||||||||||
Db   492  TATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCATGGCCCTCCAGGACTCCCACC  551

Qy   121  CGGCAGATCAGCTCAGTGACACAGATCCGCTGCGAGATGGCCCCTCCAACCCTCTCTGC  180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   552  CGGCAGATCAGCTCAGTGACACAGATCCGCTGCGAGATGGCCCCTCCAACCCCTCTGC  611

Qy   181  TGCTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  233
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   612  TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT  664
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Search completed: September 18, 2004, 20:20:23
Job time : 175.622 secs

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             GenCore version 5.1.6
        Copyright (c) 1993 - 2004  Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:    September 18, 2004, 05:54:35 ; Search time 1065.49 Seconds
                                         (without alignments)
                            6530.246 Million cell updates/sec

Title:           US-09-079-874-7
Perfect score:   233
Sequence:        1 CTGGCCCAGTGGGAGCCTGT.........AACCCTGTGCTCAGGCACCT 233

Scoring table:   IDENTITY.NUC
                 Gapop 10.0 , Gapext 1.0

Searched:        27513289 seqs, 1491090276 residues

Total number of hits satisfying chosen parameters:  55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :  EST:*
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      2: em_esthum:*
      3: em_estin:*
      4: em_estmu:*
      5: em_estov:*
      6: em_estpl:*
      7: em_estro:*
      8: em_htc:*
      9: gb_est1:*
     10: gb_est2:*
     11: gb_htc:*
     12: gb_est3:*
     13: gb_est4:*
     14: gb_est5:*
     15: em_estfun:*
     16: em_estom:*
     17: em_gss_hum:*
     18: em_gss_inv:*
     19: em_gss_pln:*
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     26: em_gss_phg:*
     27: em_gss_vrl:*
     28: gb_gss1:*
     29: gb_gss2:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.		Score	% Query Match	Length	DB	ID	Description
1		232	99.6	435	12	BM707279	BM707279 UI-E-CR1-
2		232	99.6	454	12	BM798911	BM798911 K-EST0082
3		232	99.6	532	12	BM819647	BM819647 K-EST0087
4		232	99.6	592	12	BM783852	BM783852 K-EST0061
5		232	99.6	911	13	BU194301	BU194301 AGENCOURT
6		232	99.6	922	13	BU168360	BU168360 AGENCOURT
7		232	99.6	924	13	BU174317	BU174317 AGENCOURT
8		232	99.6	1024	8	BC023582	Bc023582 Homo sapi
9	c	230.4	98.9	700	13	BQ621296	BU621296 UI-H-Bl1-
10	c	228.8	98.2	599	12	BQ019900	BQ019300 UI-H-DT1-
11		227.2	97.5	571	12	BI763933	BI763933 603049810
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13	c	227.2	97.5	738	12	BM980194	BM980194 UI-CF-EN1
14	c	227.2	97.5	743	12	BM980213	BM980213 UI-CF-EN1
15		227.2	97.5	901	13	BU173702	BU173702 AGENCOURT
16		227.2	97.5	924	13	BQ678675	BQ678675 AGENCOURT
17		227.2	97.5	957	13	BQ876328	BQ876328 AGENCOURT
18		227.2	97.5	990	11	BC048808	BC048808 Homo sapi
19		225.6	96.8	1009	13	BU168445	BU168445 AGENCOURT
20	c	223	95.7	738	12	BM980828	BM980828 UI-CF-EN1
21		220	94.4	970	13	BU179764	BU179764 AGENCOURT
22		216.2	92.8	735	12	BM041997	BM041997 603615880
23	c	215.2	92.4	781	12	BM042696	BM042696 603616054
24		213	91.4	749	12	BM042052	BM042052 603616054
25		209	89.7	936	13	BU174241	BU174241 AGENCOURT
26		207	88.8	548	14	N32011	N32011 yw96a06.s1
27	c	206.4	88.6	503	9	AA446964	AA446964 zw85f03.s
28	c	202	86.7	748	12	BG765417	BG765417 602738887
29		200	85.8	820	14	CB996183	CB996183 AGENCOURT
30	c	199.6	85.7	490	9	AI139599	AI139599 qc57d11.x
31	c	199.4	85.6	549	14	N32614	N32614 yw95e06.s1
32	c	197.4	84.3	517	9	AI677792	AI677792 wc80d09.x
33		196.4	82.1	508	10	AW205435	AW205435 UI-H-Bl1-
34	c	191.2	81.0	523	12	BI759495	BI759495 603046876
35		188.8	80.7	531	12	BI761129	BI761129 603043613
36	c	188	80.1	827	12	BM018750	BM018750 603646652
37	c	186.6	79.8	503	12	BM975759	BM975759 UI-CF-EN1
38		186.1	77.2	692	12	BG761095	BG761095 602717425
39		179.8	75.4	843	14	CB997275	CB997275 AGENCOURT
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41	c	174	74.2	476	12	BQ012145	BQ012145 UI-1-BC1p
42	c	172.8	72.8	510	9	AA525838	AA525838 nl93a06.s
43	c	169.6	68.1	671	12	BM042779	BM042779 603616172
44	c	160	68.1	451	9	AI936226	AI936226 wo63e01.x
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ALIGNMENTS

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BM707279
LOCUS       BM707279     435 bp    mRNA    linear   EST 28-FEB-2002
DEFINITION  UI-E-CR1-aee-c-10-0-UI r1 UI-E-CR1 Homo sapiens cDNA clone
            UI-E-CR1-aee-c-10-0-UI 5', mRNA sequence.
ACCESSION   BM707279
VERSION     BM707279.1  GI:19020537
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 435)
AUTHORS     Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE       Normalization and subtraction: two approaches to facilitate gene
            discovery
JOURNAL     Genome Res. 6 (9), 791-806 (1996)
MEDLINE     97044477
PUBMED      8889548
COMMENT     Contact: Soares, MB
            Coordinated Laboratory for Computational Genomics
            University of Iowa
            375 Newton Road, 4156  MEBRF, Iowa City, IA 52242, USA
            Tel: 319 335 8250
            Fax: 319 335 9565
            Email: bento-soares@uiowa.edu
            Tissue Procurement: Dr. Gregg Hageman
```

COMMENT
    cDNA Library preparation: Dr. M. Bento Soares, Univeristy of Iowa
    cDNA Library Arrayed by: Dr. M. Bento Soares, Univeristy of Iowa
    DNA Sequencing by: Dr. M. Bento Soares, Univeristy of Iowa
    Clone Distribution: Researchers may obtain clones from Research
    Genetics (www.resgen.com).
    Seq primer: M13 Reverse.

FEATURES   Location/Qualifiers
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        /dev_stage="adult"
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        /note="Organ: eye; Vector: pT7T3-Pac (Pharmacia) with a modified poly-linker; Site_1: EcoR I; Site_2: Not I; UI-E-CR1 is a normalized cDNA library containing the following tissue(s): eye anterior segment. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is AATGCCGCAT. This library was created for the program, Gene Discovery in the Visual System, supported by National Eye Institute (NEI)."

ORIGIN
Query Match   99.6%;   Score 232;   DB 12;   Length 435;
Best Local Similarity   99.6%;   Pred. No. 3.4e-47;
Matches 232;   Conservative   0;   Mismatches   0;   Indels   1;   Gaps   0;

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RESULT 2
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LOCUS   BM798911   454 bp   mRNA   linear   EST 05-MAR-2002
DEFINITION   K-EST0082659 S17N258215 Homo sapiens cDNA clone S17N258215-11-H07 5', mRNA sequence.
ACCESSION   BM798911
VERSION   BM798911.1   GI:19147143
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 454)
AUTHORS   Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R., Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and Kim,Y.S.
TITLE   21C Frontier Korean EST Project 2001
JOURNAL   Unpublished (2002)

COMMENT
    Contact: Kim YS
    Genome Research Center
    Korea Research Institute of Bioscience & Biotechnology
    52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
    Tel: +82-42-860-4470
    Fax: +82-42-860-4409
    Email: yongsung@mail.kribb.re.kr
    Plate: 11 row: H column: 07
    High quality sequence stop: 454.

FEATURES   Location/Qualifiers
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        /sex="M"
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        /clone_lib="S17N258215"
        /note="Organ: Stomach; Vector: pCNS; Site_1: EcoRI; Site_2: NotI; The poly (A)+ RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then decapped with tabacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA-RNA linker including EcoR I site by treatment of T4 RNA ligase and the first strand cDNA was synthesized from oligo dT-selected mRNA by priming with dT-tailed vector. The dT-tailed vector was adjusted to have about 60nt. The cDNA vector was circularized with E. coli DNA ligase after digestion of EcoRI which site is also included in vector. An RNA strand converted to a DNA strand by Okayama-Berg method. The obtained cDNA vectors were used for transformation of competent cells E. coli Top10F' by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."

ORIGIN
Query Match   99.6%;   Score 232;   DB 12;   Length 454;
Best Local Similarity   99.6%;   Pred. No. 3.4e-47;
Matches 232;   Conservative   0;   Mismatches   0;   Indels   1;   Gaps   0;

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RESULT 3
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LOCUS   BM819647   532 bp   mRNA   linear   EST 06-MAR-2002
DEFINITION   K-EST0087794 S19N665307 Homo sapiens cDNA clone S19N665307-5-E10 5', mRNA sequence.
ACCESSION   BM819647
VERSION   BM819647.1   GI:19176060
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 532)
AUTHORS   Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R., Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and Kim,Y.S.

Left column

TITLE   21C Frontier Korean EST Project 2001
JOURNAL   Unpublished (2002)
COMMENT   Contact: Kim YS
            Genome Research Center
            Korea Research Institute of Bioscience & Biotechnology
            52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
            Tel: +82-42-860-4470
            Fax: +82-42-860-4409
            Email: yongsung@mail.kribb.re.kr
            Plate: 5   row: E   column: 10
            High quality sequence stop: 532.
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                     /note="Organ: Stomach; Vector: pCNS; Site_1: EcoRI;
                     Site 2: NotI; The poly (A)+ RNA was dephosphorylated with
                     bacterial alkaline phosphatase (BAP) and then decapped
                     with tobacco acid pyrophosphatase (TAP). The decapped
                     intact mRNA was ligated with DNA-RNA linker including EcoR
                     I site by treatment of T4 RNA ligase and the first strand
                     cDNA was synthesized from oligo dT-selected mRNA by
                     priming with dT-tailed vector. The dT-tailed vector was
                     circularized with E. coli DNA ligase after digestion of
                     EcoRI which site is also included in vector. An RNA strand
                     converted to a DNA strand by Okayama-Berg method. The
                     obtained cDNA vectors were used for transformation of
                     competent cells E. coli Top10F' by electroporation method.
                     The cDNA libraries constructed by this method are
                     full-length enriched cDNA library."
ORIGIN

Query Match   99.6%; Score 232; DB 12; Length 532;
Best Local Similarity   99.6%; Pred. No. 3.7e-47;
Matches   232; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Qy  181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
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LOCUS   BM783852   592 bp   mRNA   linear   EST 05-MAR-2002
DEFINITION K-EST0061885 S17N258215 Homo sapiens cDNA clone S17N258215-2-E04
            5', mRNA sequence.
ACCESSION   BM783852
VERSION   BM783852.1 GI:19132084
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 592)
  AUTHORS   Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,

Right column

TITLE   21C Frontier Korean EST Project 2001
            Kim,Y.S.
JOURNAL   Unpublished (2002)
COMMENT   Contact: Kim YS
            Genome Research Center
            Korea Research Institute of Bioscience & Biotechnology
            52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
            Tel: +82-42-860-4470
            Fax: +82-42-860-4409
            Email: yongsung@mail.kribb.re.kr
            Plate: 2   row: E   column: 04
            High quality sequence stop: 592.
FEATURES   Location/Qualifiers
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                     /note="Organ: Stomach; Vector: pCNS; Site_1: EcoRI;
                     Site 2: NotI; The poly (A) + RNA was dephosphorylated with
                     bacterial alkaline phosphatase (BAP) and then decapped
                     with tobacco acid pyrophosphatase (TAP). The decapped
                     intact mRNA was ligated with DNA-RNA linker including EcoR
                     I site by treatment of T4 RNA ligase and the first strand
                     cDNA was synthesized from oligo dT-selected mRNA by
                     priming with dT-tailed vector. The dT-tailed vector was
                     adjusted to have about 60nt. The cDNA vector was
                     circularized with E. coli DNA ligase after digestion of
                     EcoRI which site is also included in vector. An RNA strand
                     converted to a DNA strand by Okayama-Berg method. The
                     obtained cDNA vectors were used for transformation of
                     competent cells E. coli Top10F' by electroporation method.
                     The cDNA libraries constructed by this method are
                     full-length enriched cDNA library."
ORIGIN

Query Match   99.6%; Score 232; DB 12; Length 592;
Best Local Similarity   99.6%; Pred. No. 3.9e-47;
Matches   232; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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LOCUS   BU194301   911 bp   mRNA   linear   EST 04-SEP-2002
DEFINITION AGENCOURT_7962297 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6106261
            5', mRNA sequence.
ACCESSION   BU194301
VERSION   BU194301.1 GI:22708285
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE   1 (bases 1 to 911)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
             Email: cgapbs-r@mail.nih.gov
             Tissue Procurement: DCTD/DTP
             cDNA Library Preparation: Rubin Laboratory
             cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
             DNA Sequencing by: Agencourt Bioscience Corporation
             Clone distribution: MGC clone distribution information can be
             found through the I.M.A.G.E. Consortium/LLNL at:
             http://image.llnl.gov
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             /lab_host="DH10B (phage-resistant)"
             /clone_lib="NIH_MGC_112"
             /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
             EcoRI; cDNA made by oligo-dT priming. Directionally cloned
             into EcoRI/XhoI sites using the following 5' adaptor:
             GGCACGAG(G). Library constructed by Ling Hong in the
             laboratory of Gerald M. Rubin (University of California,
             Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
             Superscript II RT (Life Technologies). Note: this is a
             NIH_MGC Library."
ORIGIN

Query Match   99.6%; Score 232; DB 13; Length 911;
Best Local Similarity   99.6%; Pred. No. 4.7e-47;
Matches   232; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Qy   61 TATGTCTGCACCCCTGTCCCCACCCTGACCCTGCGCTCCCAGGACTCCCACC 120
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ACCESSION   BU168360
VERSION   BU168360.1 GI:22682344
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
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            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 922)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov

Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2359 row: f column: 09
            High quality sequence stop: 597.
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             /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
             EcoRI; cDNA made by oligo-dT priming. Directionally cloned
             into EcoRI/XhoI sites using the following 5' adaptor:
             GGCACGAG(G). Library constructed by Ling Hong in the
             laboratory of Gerald M. Rubin (University of California,
             Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
             Superscript II RT (Life Technologies). Note: this is a
             NIH_MGC Library."
ORIGIN

Query Match   99.6%; Score 232; DB 13; Length 922;
Best Local Similarity   99.6%; Pred. No. 4.7e-47;
Matches   232; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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RESULT 7
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LOCUS   BU174317   924 bp   mRNA   linear   EST 04-SEP-2002
DEFINITION AGENCOURT_8102304 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6110984
            5', mRNA sequence.
ACCESSION   BU174317
VERSION   BU174317.1 GI:22688301
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
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            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 924)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:

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                      http://image.llnl.gov
                      Plate: LLCM2399 row: k  column: 20
                      High quality sequence stop: 587.
FEATURES              Location/Qualifiers
     source           1..924
                      /organism="Homo sapiens"
                      /mol_type="mRNA"
                      /db_xref="taxon:9606"
                      /clone="IMAGE:6252811"
                      /tissue_type="melanotic melanoma, cell line"
                      /lab_host="DH10B (phage-resistant)"
                      /clone_lib="NIH_MGC_112"
                      /note="Organ: skin; Vector: pOTB7; Site_1: XhoI; Site_2:
                      EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                      into EcoRI/XhoI sites using the following 5' adaptor:
                      GGCACGAG(G). Library constructed by Ling Hong in the
                      laboratory of Gerald M. Rubin (University of California,
                      Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                      Superscript II RT (Life Technologies). Note: this is a
                      NIH_MGC Library."
ORIGIN

Query Match    99.6%;  Score 232;  DB 13;  Length 924;
Best Local Similarity  99.6%;  Pred. No. 4.8e-47;
Matches 232;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy      1 CTGGCCCAGTGGGAGCCGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    357 CTGGCCCAGTGGGAGCCGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 416

Qy     61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCCAGGCCCTCTCCAGGACTCCCACC 120
          |||||||||  ||||||||||||||||||||||||||||||||||||||||||||||||
Db    417 TATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCAGGCCCTCTCCAGGACTCCCACC 476

Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCCAGATGGCCCCTCCAACCCTCTGC 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    477 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCCAGATGGCCCCTCCAACCCTCTGC 536

Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    537 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 589
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RESULT 8
BC023582
ID   BC023582     standard; mRNA; HTC; 1024 BP.
XX
AC   BC023582;
XX
SV   BC023582.1
XX
DT   01-NOV-2002 (Rel. 73, Created)
DT   05-MAR-2003 (Rel. 75, Last updated, Version 3)
XX
DE   Homo sapiens, Similar to prostate stem cell antigen, clone IMAGE:4840974,
DE   mRNA.
XX
KW   HTC.
XX
OS   Homo sapiens (human)
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC   Eutheria; Primates; Catarrhini; Hominidae; Homo.
XX
RN   [1]
RC   NIH-MGC Project URL: http://mgc.nci.nih.gov
RP   1-1024
RA   Strausberg R.;
RT   ;
RL   Submitted (05-FEB-2002) to the EMBL/GenBank/DDBJ databases.
RL   National Institutes of Health, Mammalian Gene Collection (MGC), Cancer
RL   Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03,
RL   Bethesda, MD 20892-2590, USA
XX
```

```
DR   RZPD; IRALp962M1933.
XX
CC   Contact: MGC help desk
CC   Email: cgapbs-r@mail.nih.gov
CC   Tissue Procurement: ATCC/DCTD/DTP
CC   cDNA Library Preparation: Rubin Laboratory
CC   cDNA library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
CC   DNA Sequencing by: National Institutes of Health Intramural
CC   Sequencing Center (NISC),
CC   Gaithersburg, Maryland;
CC   Web site: http://www.nisc.nih.gov/
CC   Contact: nisc_mgc@nhgri.nih.gov
CC   Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
CC   Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
CC   Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
CC   Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
CC   Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
CC   McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
CC   Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
CC   Young,A., Zhang,L.-H. and Green,E.D.
CC   Clone distribution: MGC clone distribution information can be found
CC   through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
CC   Series: IRAL Plate: 33 Row: m Column: 19
CC   This clone was selected for full length sequencing because it
CC   passed the following selection criteria: matched mRNA gi: 5031994
CC   This clone has the following problem: retained intron.
XX
FH   Key             Location/Qualifiers
FH
FT   source          1..1024
FT                   /db_xref="taxon:9606"
FT                   /db_xref="RZPD:IRALp962M1933"
FT                   /mol_type="mRNA"
FT                   /note="Vector: pOTB7"
FT                   /organism="Homo sapiens"
FT                   /clone="IMAGE:4840974"
FT                   /tissue_type="skin, melanotic melanoma, high MDR."
FT                   /clone_lib="NIH_MGC_49"
FT                   /lab_host="DH10B-R"
XX
SQ   Sequence 1024 BP; 226 A; 331 C; 285 G; 182 T; 0 other;

Query Match    99.6%;  Score 232;  DB 8;  Length 1024;
Best Local Similarity  99.6%;  Pred. No. 5e-47;
Matches 232;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy      1 CTGGCCCAGTGGGAGCCGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    458 CTGGCCCAGTGGGAGCCGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 517

Qy     61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCCAGGCCCTCTCCAGGACTCCCACC 120
          |||||||||  |||||||||||||||||||||||||||||||||||||||||||||||
Db    518 TATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCAGGCCCTCTCCAGGACTCCCACC 577

Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCCAGATGGCCCCTCCAACCCTCTGC 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    578 CGGCAGATCAGCTCTAGTGACACAGATCCGCTGCCAGATGGCCCCTCCAACCCTCTGC 637

Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    638 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 690
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```
RESULT 9
BU621296/c
LOCUS        BU621296    700 bp    mRNA    linear    EST 23-SEP-2002
DEFINITION   UI-H-FL1-bfz-h-07-0-UI.s1 NCI_CGAP_FL1 Homo sapiens cDNA clone
             UI-H-FL1-bfz-h-07-0-UI 3', mRNA sequence.
ACCESSION    BU621296
VERSION      BU621296.1  GI:23287511
KEYWORDS     EST.
SOURCE       Homo sapiens (human)
ORGANISM     Homo sapiens
```

IMAGE:5891956 3', mRNA sequence.

ACCESSION   BQ019300
VERSION   BQ019300.1 GI:19754577
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 599)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Dr. Jose Mercuende
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Clone distribution information can be found
            through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
            Seq primer: M13 FORWARD
            POLYA=Yes.
FEATURES   Location/Qualifiers
     source   1..599
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5891956"
                     /tissue_type="Metastatic Chondrosarcoma"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies)"
                     /clone_lib="NCI_CGAP_DT1"
                     /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site_1: EcoR I; Site_2: Not I;
                     NCI_CGAP_DT1 is a normalized cDNA library containing the
                     following tissue(s): Metastatic Chondrosarcoma in Lung.
                     The library was constructed according to Bonaldo, Lennon
                     and Soares, Genome Research, 6:791-806, 1996. First strand
                     cDNA synthesis was primed with an oligo-dT primer
                     containing a Not I site. Double stranded cDNA was ligated
                     to an EcoR I adaptor, digested with Not I, and cloned
                     directionally into pT7T3-Pac vector. The oligonucleotide
                     used to prime the synthesis of first-strand cDNA contains
                     a library tag sequence that is located between the Not I
                     site and the (dT)18 tail. The sequence tag for this
                     library is AACTGTTCGG.
                     TAG_TISSUE=lung metastatic chondrosarcoma
                     TAG_LIB=UI-H-DT1
                     TAG_SEQ=AACTGTTCGG"
ORIGIN

Query Match   98.2%; Score 228.8; DB 12; Length 599;
Best Local Similarity   98.7%; Pred. No. 2.4e-46;
Matches   230; Conservative   0; Mismatches   3; Indels   0; Gaps   0;

Qy   1 CTGGCCCAGTGGGAGCCTGTCCTGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG   60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   540 CTGGCCCAGTGGGAGCCTGTCCTGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 481

Qy   61 TATGTCTGCNCCCCTGTCCCCACCTGACCTCCCATGGCCCTCTTCCAGGACTCCACC 120
          ||||||||| ||||||||||||||||||||||||||||||||||||||||||||||
Db   540 TATGTCTGCACCCCTGTCCCCACCTGACCTCCCATGGCCCTCTTCCAGGACTCCACC 481

Qy   61 TATGTCTGCNCCCCTGTCCCCACCTGACCTCCCATGGCCCTCTTCCAGGACTCCTGC 180
Db   480 TATGTCTGCACCCCTGTCCCCACCTGACCTCCCATGGCCCTCTTCCAGGACTCCTGC 421

Qy   121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCCAACCCTCTGTGCTGCCACCT 233
Db   420 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCCAACCCTCTGTGCTGCCACCT 361

Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
Db   360 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 308

RESULT 10
BQ019300/c
LOCUS   BQ019300   599 bp   mRNA   linear   EST 17-JUN-2002
DEFINITION UI-H-DT1-awm-p-05-0-UI.s1 NCI_CGAP_DT1 Homo sapiens cDNA clone

RESULT 11
BI763933
LOCUS   BI763933   571 bp   mRNA   linear   EST 25-SEP-2001
DEFINITION   6030498101F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5189714 5',
             mRNA sequence.
ACCESSION   BI763933
VERSION   BI763933.1 GI:15755511
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 571)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
             Email: cgapbs-r@mail.nih.gov
             Tissue Procurement: Life Technologies, Inc.
             cDNA Library Preparation: Life Technologies, Inc.
             cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
             DNA Sequencing by: Incyte Genomics, Inc.
             Clone distribution: MGC clone distribution information can be
             found through the I.M.A.G.E. Consortium/LLNL at:
             http://image.llnl.gov
             Plate: LLAM11474 row: d column: 03
             High quality sequence stop: 571.
FEATURES   Location/Qualifiers
     source   1..571
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5189714"
                     /lab_host="DH10B"
                     /clone_lib="NIH_MGC_116"
                     /note="Organ: pooled colon, kidney, stomach; Vector:
                     pCMV-SPORT6; Site_1: NotI; Site 2: EcoRV (destroyed); RNA
                     source anonymous pool of 3 colons, age 26 yo male, 49 yo
                     female, 71 yo male colon; 46 yo male kidney, and pool of 2
                     stomachs, 62 yo male and 70 yo female. Library is
                     oligo-dT primed and directionally cloned (EcoRV site is
                     destroyed upon cloning). Average insert size 1.4 kb,
                     insert size range 1-3 kb. Library is normalized and
                     enriched for full-length clones and was constructed by C.
                     Gruber (Invitrogen). Research Genetics tracking code
                     023. Note: this is a NIH_MGC Library."
ORIGIN

Query Match   97.5%;   Score 227.2; DB 12; Length 571;
Best Local Similarity   98.3%;   Pred. No. 5.9e-46;
Matches 229; Conservative   0; Mismatches   4; Indels   0; Gaps   0;

Qy   1 CTGGCCCAGTGGGAGCCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   69 CCGGCCCAGTGGGAGCCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 128

Qy   61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCCTCCCACCCTTCCAGGACTCCCACC 120
           |||||||| ||||||||||||||||||||||||||||||||||||||||||||||
Db   129 TATGTCTGCGCCCCTGTCCCCACCCTGACCCCTCCCACCCTTCCAGGACTCCCACC 188

Qy   121 CGGCAGATCAGCTCTTAGTGACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTCTGC 180
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   189 CGGCAGATCGGCTCTTATTGACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTCTGC 248

Qy   181 TGCTGTTTCCATGGCCCAGCATTCTCACCCTTAACCCTGTGCTTCAGGCACCT 233
           |||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db   249 TGCTGTTTCCATGGCCCAGCATTCCCACCCTTAACCCTGTGCTTCAGGCACCT 301

RESULT 12
CB850631/c
LOCUS   CB850631   682 bp   mRNA   linear   EST 22-APR-2003
DEFINITION   UI-CF-EN1-acg-e-07-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone

ACCESSION   CB850631
VERSION   CB850631.1 GI:30045398
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
DEFINITION   UI-CF-EN1-acg-e-07-0-UI 3', mRNA sequence.
REFERENCE   1 (bases 1 to 682)
AUTHORS   Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE   Normalization and subtraction: two approaches to facilitate gene
             discovery
JOURNAL   Genome Res. 6 (9), 791-806 (1996)
MEDLINE   97044477
PUBMED   8889548
COMMENT   Contact: McCray, PB
             McCray Lab
             University of Iowa
             2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
             Tel: 319 356 4866
             Fax: 319 356 7171
             Email: paul-mccray@uiowa.edu
             Tissue Procurement: Dr. M. J. Welsh, University of Iowa
             cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
             cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
             DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
             Clone Distribution: Researchers may obtain clones from Research
             Genetics (www.resgen.com).
             Seq_primer: M13 FORWARD
             POLYA=No.
FEATURES   Location/Qualifiers
     source   1..682
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-CF-EN1-acg-e-07-0-UI"
                     /tissue_type="Primary Lung Cystic Fibrosis Epithelial
                     Cells"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
                     /clone_lib="UI-CF-EN1"
                     /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site 1: EcoR I; Site_2: Not I;
                     UI-CF-EN1 is a normalized cDNA library containing the
                     following tissue(s): Primary Lung Cystic Fibrosis
                     Epithelial Cells. The library was constructed according to
                     Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                     1996. First strand cDNA synthesis was primed with an
                     oligo-dT primer containing a Not I site. Double stranded
                     cDNA was ligated to an EcoR I adaptor, digested with Not
                     I, and cloned directionally into pT7T3-Pac vector. The
                     oligonucleotide used to prime the synthesis of
                     first-strand cDNA contains a library tag sequence that is
                     located between the Not I site and the (dT)18 tail. The
                     sequence tag for this library is CTGCTCAGGT.
                     TAG_SEQ=None found"
ORIGIN

Query Match   97.5%;   Score 227.2; DB 14; Length 682;
Best Local Similarity   98.3%;   Pred. No. 6.4e-46;
Matches 229; Conservative   0; Mismatches   4; Indels   0; Gaps   0;

Qy   1 CTGGCCCAGTGGGAGCCCTGTCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 60
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 CCGGCCCAGTGGGAGCCCTGTCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 422

Qy   61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCCTCCCAGGACTCCCACC 120
           |||||||| ||||||||||||||||||||||||||||||||||||||
Db   421 TATGTCTGCGCCCCTGTCCCCACCCTGACCCCTCCCAGGACTCCCACC 362

Qy   121 CGGCAGATCAGCTCTTAGTGACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTCTGC 180
           ||||||||| ||||||| ||||||||||||| ||||||||||||||||||||||||||||
Db   361 CGGCAGATCGGCTCTTATTGACACAGATCCGCGTGCAGATGCCCTCCAACCCTCTCTGC 302

Best Local Similarity 98.3%; Pred. No. 6.6e-46;
Matches 229; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy      1 CTGGCCCAGTGGGAGCCTCTTCCTGGTTCTGAGGACATCCTTGAGGACATCTGAGCAAGTCTGACCATG 60
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    540 CCGGGCCAGTGGGAGCCTGTTCCTGGTTCTGAGGACATCTGAGGACATCTAACGCAAGTCTGACCATG 481

Qy     61 TATGTCTGCNCCCCTGTCCCCGACCCTCCAGGACCCTCCAGGACCCTCCAACCCTCCTCGC 120
            ||||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||| 
Db    480 TATGTCTGCGGCCCTGTCCCCACCCTCCAGGACCCTCCAGGACCCTCCAACCCTCCTCACC 421

Qy    121 CGGCAGATCAGCTCTAGTGACACAGATCCCCTGCAGATGGCCCCTCCAACCCTCCTCGC 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| 
Db    420 CGGCAGATCGGCTCATTGACACAGATCCCCTGCAGATGGCCCCTCCAACCCTCCTCGC 361

Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
            ||||||||||||||||||||||||||||||||||||||||||||||||||||| 
Db    360 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 308
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RESULT 14
BM980213/c
LOCUS   BM980213   743 bp   mRNA   linear   EST 21-FEB-2003
DEFINITION UI-CF-EN1-adf-h-09-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
            UI-CF-EN1-adf-h-09-0-UI 3', mRNA sequence.
ACCESSION   BM980213
VERSION   BM980213.1 GI:19601447
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 743)
AUTHORS   Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE   Normalization and subtraction: two approaches to facilitate gene
            discovery
JOURNAL   Genome Res. 6 (9), 791-806 (1996)
MEDLINE   97044477
PUBMED   8889548
COMMENT   Contact: McCray, PB
            McCray Lab
            University of Iowa
            2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
            Tel: 319 356 4866
            Fax: 319 356 7171
            Email: paul-mccray@uiowa.edu
            Tissue Procurement: Dr. M. J. Welsh, University of Iowa
            cDNA library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Researchers may obtain clones from Research
            Genetics (www.resgen.com) or from Open Biosystems
            (www.openbiosystems.com).
            Seq primer: M13 FORWARD
            POLYA=Yes.
FEATURES   Location/Qualifiers
     source   1..743
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-CF-EN1-adf-h-09-0-UI"
                     /tissue_type="Primary Lung Cystic Fibrosis Epithelial
                     Cells"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
                     /clone_lib="UI-CF-EN1"
                     /note="Organ:Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site_1: EcoR I; Site_2: Not I;
                     UI-CF-EN1 is a normalized cDNA library containing the
                     following tissue(s): Primary Lung Cystic Fibrosis
                     Epithelial Cells. The library was constructed according to
                     Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                     1996. First strand cDNA synthesis was primed with an
```

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Qy    181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
            |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 249
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RESULT 13
BM980194/c
LOCUS   BM980194   738 bp   mRNA   linear   EST 21-FEB-2003
DEFINITION UI-CF-EN1-adf-d-13-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
            UI-CF-EN1-adf-d-13-0-UI 3', mRNA sequence.
ACCESSION   BM980194
VERSION   BM980194.1 GI:19601409
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 738)
AUTHORS   Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE   Normalization and subtraction: two approaches to facilitate gene
            discovery
JOURNAL   Genome Res. 6 (9), 791-806 (1996)
MEDLINE   97044477
PUBMED   8889548
COMMENT   Contact: McCray, PB
            McCray Lab
            University of Iowa
            2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
            Tel: 319 356 4866
            Fax: 319 356 7171
            Email: paul-mccray@uiowa.edu
            Tissue Procurement: Dr. M. J. Welsh, University of Iowa
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Researchers may obtain clones from Research
            Genetics (www.resgen.com) or from Open Biosystems
            (www.openbiosystems.com).
            Seq primer: M13 FORWARD
            POLYA=Yes.
FEATURES   Location/Qualifiers
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                     /db_xref="taxon:9606"
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                     /tissue_type="Primary Lung Cystic Fibrosis Epithelial
                     Cells"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
                     /clone_lib="UI-CF-EN1"
                     /note="Organ:Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site_1: EcoR I; Site_2: Not I;
                     UI-CF-EN1 is a normalized cDNA library containing the
                     following tissue(s): Primary Lung Cystic Fibrosis
                     Epithelial Cells. The library was constructed according to
                     Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                     1996. First strand cDNA synthesis was primed with an
                     oligo-dT primer containing a Not I site. Double stranded
                     cDNA was ligated to an EcoR I adaptor, digested with Not
                     I, and cloned directionally into pT7T3-Pac vector. The
                     oligonucleotide used to prime the synthesis of
                     first-strand cDNA contains a library tag sequence that is
                     located between the Not I site and the (dT)18 tail. The
                     sequence tag for this library is CTGCTCAGGT.
                     TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
                     6hr to LPS 24h
                     TAG_LIB=UI-CF-EN1
                     TAG_SEQ=CTGCTCAGGT"
ORIGIN

Query Match   97.5%; Score 227.2; DB 12; Length 738;
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oligo-dT primer containing a Not I site.  Double stranded
cDNA was ligated to an EcoR I adaptor, digested with Not
I, and cloned directionally into pT7T3-Pac vector. The
oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dT)18 tail. The
sequence tag for this library is CTGTCCAGGT.
TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
6hr to LPS 24h
TAG_LIB=UI-CF-EN1
TAG_SEQ=CTGCTCAGGT"

ORIGIN

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Best Local Similarity 98.3%;  Pred. No. 6.7e-46;
Matches 229;  Conservative  0; Mismatches  4; Indels  0; Gaps  0;

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Qy    1 CTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG  60
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Db  540 CCGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 481

Qy   61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCATGGCCCTCCAGGACTCCCACC 120
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Db  480 TATGTCTGCGCCCCTGTCCCCACCCTGACCCTCCATGGCCCTCCAGGACTCCCACC 421

Qy  121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTGC 180
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Qy  181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
        |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  360 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 308
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GGCACGAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

ORIGIN

Query Match   97.5%; Score 227.2; DB 13; Length 901;
Best Local Similarity 98.3%; Pred. No. 7.3e-46;
Matches 229; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db  444 CCGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATG 503

Qy   61 TATGTCTGCNCCCCTGTCCCCACCCTGACCCTCCATGGCCCTCCAACCCTCTGC 180
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Db  504 TATGTCTGCGCCCCTGTCCCCACCCTGACCCTCCATGGCCCTCCAGGACTCCCACC 563

Qy  121 CGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTGC 180
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Db  564 CGGCAGATCGGCTCTATTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTGC 623

Qy  181 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 233
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Db  624 TGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCT 676
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Search completed: September 18, 2004, 19:14:27
Job time : 1066.49 secs

RESULT 15
BU173702
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LOCUS       BU173702                 901 bp    mRNA     linear   EST 04-SEP-2002
DEFINITION  AGENCOURT_7568845 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6074479
            5', mRNA sequence.
ACCESSION   BU173702
VERSION     BU173702.1  GI:22687686
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 901)
AUTHORS     NIH-MGC http://mgc.nci.nih.gov/.
TITLE       National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL     Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM290  row: e  column: 08
            High quality sequence stop: 667.
FEATURES             Location/Qualifiers
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                     /db_xref="taxon:9606"
                     /clone="IMAGE:6074479"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
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Blank sheet

OM nucleic - nucleic search, using sw model

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Run on: September 18, 2004, 04:35:58 ; Search time 1251.87 Seconds
                                         (without alignments)
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Perfect score: 250
Sequence: 1 GTCCTGGTTCCTGAGGCACA.........CTTCCCTGCCACCCCATCT 250

Scoring table: IDENTITY_NUC
                Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 2167151 6995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   GenEmbl:*
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         4: gb_om:*
         5: gb_ov:*
         6: gb_pat:*
         7: gb_ph:*
         8: gb_pl:*
         9: gb_pr:*
        10: gb_ro:*
        11: gb_sts:*
        12: gb_sy:*
        13: gb_un:*
        14: gb_vi:*
        15: em_ba:*
        16: em_fun:*
        17: em_hum:*
        18: em_in:*
        19: em_mu:*
        20: em_om:*
        21: em_or:*
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        26: em_ro:*
        27: em_sts:*
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        30: em_htg_hum:*
        31: em_htg_inv:*
        32: em_htg_other:*
        33: em_htg_mus:*
        34: em_htg_pln:*
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        36: em_htg_mam:*
        37: em_htg_vrt:*
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        39: em_htgo_hum:*
        40: em_htgo_mus:*
        41: em_htgo_other:*

SUMMARIES

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

Result No.	c	Score	% Query Match	Length	DB	ID	Description
1		249	99.6	758	6	AX014148	Sequence
2		249	99.6	758	6	BD205056	Human nuc
3		249	99.6	960	6	AR410610	Sequence
4		249	99.6	960	6	AX201328	Sequence
5		249	99.6	960	6	AX697426	Sequence
6		249	99.6	960	6	BD075381	Secretory
7		249	99.6	960	6	BD172241	Secreted
8		249	99.6	960	6	BD172560	Secreted
9		249	99.6	960	6	BD172879	Secreted
10		249	99.6	960	6	BD173198	Secreted
11		249	99.6	960	6	BD175232	Secretory
12		249	99.6	960	9	AY358912	Homo sapi
13		249	99.6	979	6	BD076397	Human pro
14		249	99.6	1015	9	BC023582	Homo sapi
15		249	99.6	157839	2	AC015718	Homo sapi
16		247.4	99.0	946	9	HSA297436	Homo sapi
17	c	244.2	97.7	100079	2	AC108002	Homo sapi
18		244.2	97.7	103247	2	AF176678	Homo sapi
19		244.2	97.7	105156	2	AF235094	Homo sapi
20		193	77.2	990	6	AX014204	Sequence
21		193	77.2	990	6	BD205072	Human nuc
22		193	77.2	990	9	AF043498	Homo sapi
23		193	77.2	998	6	AR162849	Sequence
24		193	77.2	998	6	BD264314	PSCA: pro
25		193	77.2	998	6	AR302232	Sequence
26		193	77.2	998	6	AX030304	Sequence
27		193	77.2	998	6	BD193367	Prostate
28		49.4	19.8	132634	2	AC123294	Rattus no
29		47.2	18.9	7218	6	I66494	Sequence 14
30	c	45	18.0	65845	2	AC101554	Mus muscu
31	c	45	18.0	181998	2	AC090552	Homo sapi
32		44.6	17.8	186758	2	AC127243	Mus muscu
33	c	43.8	17.5	268876	2	AC132103	Mus muscu
34		43.6	17.4	1337	6	BD216593	Novel hum
35	c	43.4	17.4	195655	10	AC122824	Mus muscu
36		43.4	17.3	239784	2	AC095578	Rattus no
37	c	43.2	17.3	129755	2	AC019296	Homo sapi
38	c	43.2	17.3	134741	2	AC026243	Homo sapi
39		43	17.2	165909	2	AC079152	Homo sapi
40	c	43	17.2	258174	2	AC079429	Mus muscu
41		42.8	17.1	27269	9	AC091897	Homo sapi
42		42.8	17.1	166534	2	AC034209	Homo sapi
43	c	42.8	17.1	168168	2	AC012283	Homo sapi
44		42.6	17.0	57787	2	AC100680	Mus muscu
45		42.6	17.0	62649	2	AC022552	Homo sapi

ALIGNMENTS

RESULT 1
AX014148
LOCUS   AX014148   758 bp   DNA   linear   PAT 07-SEP-2000
DEFINITION Sequence 16 from Patent WO9954447.
ACCESSION   AX014148
VERSION   AX014148.1 GI:10040595
KEYWORDS
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Schmitt,A., Specht,T., Dahl,E., Hinzmann,B., Rosenthal,A. and
            Pilarsky,C.
  TITLE   Human nucleic acid sequences of bladder tumour tissue

Pred. No. is the number of results predicted by chance to have a

JOURNAL   Patent: WO 9954447-A 16 28-OCT-1999;
            SCHMITT ARMIN (DE); SPECHT THOMAS (DE); DAHL EDGAR (DE); HINZMANN
            BERND (DE); ROSENTHAL ANDRE (DE); METAGEN GES FUER GENOMFORSCHUN
            (DE); PILARSKY CHRISTIAN (DE)
FEATURES   Location/Qualifiers
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  Best Local Similarity   99.6%; Pred. No. 5.3e-56;
  Matches 249; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Qy   61 CCCCACCCTGACCCTCCATGGCCCTTCCACCCTCTCGTGCTGTTCCATGGCCCA 120
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Db   303 CCCCACCCTGACCCTCCATGGCCCTTCCACCCTCTCGTGCTGTTCCATGGCCCA 362

Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGCTGTTTCATGGCCCA 180
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Db   363 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGCTGTTTCATGGCCCA 422

Qy   181 GCATTCTCCACCCTTAACCCTGTGCTGCTGTTTCCCCCAGGAAGCCTTCCCTGCC 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   423 GCATTCTCCACCCTTAACCCTGTGCTGCTGTTTCCCCCAGGAAGCCTTCCCTGCC 482

Qy   241 CACCCCATCT 250
              ||||||||||
Db   483 CACCCCATCT 492

RESULT 2
BD205056
LOCUS   BD205056   758 bp   DNA   linear   PAT 17-JUL-2003
DEFINITION Human nucleic acid sequence originating in cystic cancer tissue.
ACCESSION   BD205056
VERSION   BD205056.1 GI:33014826
KEYWORDS   JP 2002512023-A/10.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 758)
  AUTHORS   Specht,T., Hinzmann,B., Schmitt,A., Pilarsky,C., Dahl,E. and
            Rosenthal,A.
  TITLE   Human nucleic acid sequence originating in cystic cancer tissue
  JOURNAL   Patent: JP 2002512023-A 10 23-APR-2002;
            METAGEN GESELLSCHAFT FUER GENOM FORSCHUNG MBH
COMMENT   OS   Homo sapiens (human)
            PN   JP 2002512023-A/10
            PD   23-APR-2002
            PF   15-APR-1999 JP 2000544779
            PR   21-APR-1998 DE 198 18 619.3
            PI   THOMAS SPECHT,BERND HINZMANN,ARMIN SCHMITT,CHRISTIAN PILARSKY,
            PI   EDGAR DAHL,
            PI   ANDRE ROSENTHAL
            PC   C12N15/09,A61K38/00,A61K39/395,A61K39/395,A61K48/00,A61P13/10,
            PC   A61P35/00,
            PC   C07K14/47,C07K16/18,C12N5/10,C12P21/02,C12P21/08,C12Q1/68, PC
            C12N15/00,
            PC   A61K37/02,C12N5/00
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                 tissue
            FH   Key   Location/Qualifiers
            FT   source   1..758
            FT   /organism='Homo sapiens (human)'.
FEATURES   Location/Qualifiers
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                     /db_xref="taxon:9606"
ORIGIN

Query Match   99.6%; Score 249; DB 6; Length 758;
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  Matches 249; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCTGTN 60
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Db   243 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCTGTG 302

Qy   61 CCCCACCCTGACCCTCCATGGCCCTTCCACCCTCTCGTGCTGTTCCATGGCCCA 120
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Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGCTGTTTCATGGCCCA 180
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Qy   181 GCATTCTCCACCCTTAACCCTGTGCTGCTGTTTCCCCCAGGAAGCCTTCCCTGCC 240
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Db   423 GCATTCTCCACCCTTAACCCTGTGCTGCTGTTTCCCCCAGGAAGCCTTCCCTGCC 482

Qy   241 CACCCCATCT 250
              ||||||||||
Db   483 CACCCCATCT 492

RESULT 3
AR410610
LOCUS   AR410610   960 bp   DNA   linear   PAT 18-DEC-2003
DEFINITION Sequence 17 from patent US 6635468.
ACCESSION   AR410610
VERSION   AR410610.1 GI:40162110
KEYWORDS   .
SOURCE   Unknown.
ORGANISM   Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 960)
  AUTHORS   Ashkenazi,A., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
            Filvaroff,E., Fong,S., Gao,W.-Q., Gerber,H., Gerritsen,M.E.,
            Goddard,A., Godowski,P.J., Grimaldi,J.C., Gurney,A.L., Hillan,K.J.,
            Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,
            Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
  TITLE   Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: US 6635468-A 17 21-OCT-2003;
FEATURES   Location/Qualifiers
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ORIGIN

Query Match   99.6%; Score 249; DB 6; Length 960;
  Best Local Similarity   99.6%; Pred. No. 5.2e-56;
  Matches 249; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGCTGTTTCATGGCCCA 180
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Db   570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGCTGTTTCATGGCCCA 629

Qy   181 GCATTCTCCACCCTTAACCCTGTGCTGCTGTTTCCCCCAGGAAGCCTTCCCTGCC 240
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Db 630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy 241 CACCCCATCT 250
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Db 690 CACCCCATCT 699

RESULT 4
AX201328
LOCUS   AX201328   960 bp   DNA   linear   PAT 30-AUG-2001
DEFINITION Sequence 7 from Patent WO0153486.
ACCESSION   AX201328
VERSION   AX201328.1 GI:15391156
KEYWORDS   .
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS   Ashkenazi,A.J., Goddard,A., Godowski,P.J., Gurney,A.L.,
            Hillan,K.J., Marsters,S.A., Pan,J., Pitti,R.M., Roy,M.A., Smith,V.,
            Stone,D.M., Watanabe,C.K. and Wood,W.I.
TITLE   Compositions and methods for the treatment of tumour
JOURNAL   Patent: WO 0153486-A 7 26-JUL-2001;
            Genentech, Inc. (US)
FEATURES   Location/Qualifiers
     source   1..960
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                    /mol_type="unassigned DNA"
                    /db_xref="taxon:9606"
ORIGIN

Query Match   99.6%; Score 249; DB 6; Length 960;
Best Local Similarity   99.6%; Pred. No. 5.2e-56;
Matches 249; Conservative   0; Mismatches   0; Indels   1; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCAGTATGTCTGCACCCCTGTN 60
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Db 450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCAGTATGTCTGCACCCCTGTC 509

Qy   61 CCCCACCCTGACCCTCCATGGCCCTTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 120
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Qy 121 GACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTCGTGTTCCATGGCCCA 180
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Db 570 GACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTCGTGTTCCATGGCCCA 629

Qy 181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 240
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Db 630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy 241 CACCCCATCT 250
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Db 690 CACCCCATCT 699

RESULT 5
AX697426
LOCUS   AX697426   960 bp   DNA   linear   PAT 02-APR-2003
DEFINITION Sequence 17 from Patent WO0104311.
ACCESSION   AX697426
VERSION   AX697426.1 GI:29498554
KEYWORDS   .
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS   Ashkenazi,A.J., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
            Filvaroff,E., Fong,S., Gao,W.Q., Gerber,H., Gerritsen,M.E.,
            Goddard,A., Godowski,P.J., Grimaldi,C.J., Gurney,A.L., Hillan,K.J.,
            Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,

TITLE   Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
            Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
JOURNAL   Patent: WO 0104311-A 17 18-JAN-2001;
            Genentech Inc. (US)
FEATURES   Location/Qualifiers
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                    /db_xref="taxon:9606"
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Query Match   99.6%; Score 249; DB 6; Length 960;
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Qy 121 GACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTCGTGTTCCATGGCCCA 180
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Qy 181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 240
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Db 630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy 241 CACCCCATCT 250
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Db 690 CACCCCATCT 699

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LOCUS   BD075381   960 bp   DNA   linear   PAT 27-AUG-2002
DEFINITION Secretory and transmembrane polypeptide and nucleic acid encoding
            the same.
ACCESSION   BD075381
VERSION   BD075381.1 GI:22620984
KEYWORDS   JP 2001516580-A/14.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Penica,D., Chen,J. and Yuan,J.
TITLE   Secretory and transmembrane polypeptide and nucleic acid encoding
            the same
JOURNAL   Patent: JP 2001516580-A 14 02-OCT-2001;
            GENENTECH INC
COMMENT   OS   Homo sapiens (human)
            PN   JP 2001516580-A/14
            PD   02-OCT-2001
            PF   16-SEP-1998 JP 2005511867
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JOURNAL     Patent: JP 2002223786-A 14 13-AUG-2002;
            GENENTECH INC

COMMENT     OS   Homo sapiens (human)
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            PD   13-AUG-2002
            PF   18-DEC-2001 JP 2001385135
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                 24-NOV-1997 US 60/066453,25-NOV-1997 US       60/066840 PI
            PI   WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
                 JIAN ZHENG,
                 JEAN YUAN
            PC   C12N15/09,C07K14/47,C07K16/18,C07K19/00,C12N1/19,C12N1/21, PC
                 C12N5/10,
            PC   C12P21/02//(C12P21/08,(C12P21/02,C12R1:19),(C12P21/02,C12R1:91), PC
                 (C12P21/02,C12R1:645),C12N15/00,C12N5/00
            CC   Secreted and transmembrane polypeptides and nucleic CC acids
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            FH   Key             Location/Qualifiers
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                 /organism='Homo sapiens (human)'.

FEATURES             Location/Qualifiers
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ORIGIN
Query Match      99.6%;   Score 249;  DB 6;  Length 960;
Best Local Similarity 99.6%;   Pred. No. 5.2e-56;
Matches 249;    Conservative 0;   Mismatches 1;  Indels 0;   Gaps  0;

Qy    1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
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Db  450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 509

Qy   61 CCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 569
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  510 CCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 569

Qy  121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGTGCTGTTTCCATGGCCCA 180
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Db  570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGTGCTGTTTCCATGGCCCA 629

Qy  181 GCATTCTCCACCCTTAACCCTGCTCAGGCACCTTCCCCAGGAAGCCTTCCCTGCC 240
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Qy  241 CACCCCATCT 250
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Db  690 CACCCCATCT 699
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RESULT 7
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LOCUS       BD172241       960 bp   DNA     linear    PAT 18-FEB-2003
DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding
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ACCESSION   BD172241
VERSION     BD172241.1   GI:28413539
KEYWORDS    JP 2002223786-A/14.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS     Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
TITLE       Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
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Db    690 CACCCCATCT 699


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LOCUS       BD172560                 960 bp    DNA        linear   PAT 18-FEB-2003
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ACCESSION   BD172560
VERSION     BD172560.1  GI:28413862
KEYWORDS    JP 2002238586-A/14.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
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            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: JP 2002238586-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT     OS    Homo sapiens (human)
            PN    JP 2002238586-A/14
            PD    27-AUG-2002
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            WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA,
            JIAN ZHENG,
            PI    JEAN YUAN
            PC    C12N15/09,C07K14/47,C07K16/18,C07K19/00,C12N1/19,C12N1/21, PC
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ORIGIN
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Query Match             99.6%;  Score 249;  DB 6;  Length 960;
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Qy     1 GTCTCGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCGTN  60
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Qy    61 CCCACCCTGACCCTCCATGGCCCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT    120
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Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGTTCCATGGCCCA   180
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Qy   181 GCATTCCACCCTTAACCCTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC   240
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Db   630 GCATTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy   241 CACCCCATCT 250
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Db   690 CACCCCATCT 699


RESULT 9
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LOCUS       BD172879                 960 bp    DNA        linear   PAT 18-FEB-2003
DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding
            the same.
ACCESSION   BD172879
VERSION     BD172879.1  GI:28414185
KEYWORDS    JP 2002238587-A/14.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: JP 2002238587-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT     OS    Homo sapiens (human)
            PN    JP 2002238587-A/14
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            21-NOV-1997 US  60/066120,21-NOV-1997 US   60/065693 PR
            24-NOV-1997 US  60/066772,24-NOV-1997 US   60/066364 PR
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WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
JIAN ZHENG,
PI   JEAN YUAN
PC   C12N15/09,C07K14/47,C07K16/18,C12N1/19,C12N1/21,C12N5/10, PC
C12N15/02,
PC   C12P21/02,C12P21/08//(C12P21/02,C12R1:91),(C12P21/02,C12R1:19), PC
(C12P21/02,C12R1:645),C12N5/00,C12N5/00 CC    Secreted
and transmembrane polypeptides and nucleic CC   acids encoding the
same
FH   Key          Location/Qualifiers
FT   source       1..960
FT                /organism='Homo sapiens (human)'.

ORIGIN
Query Match       99.6%;   Score 249;  DB 6;  Length 960;
Best Local Similarity   99.6%;   Pred. No. 5.2e-56;
Matches 249;  Conservative   0;  Mismatches    1;  Indels    0;  Gaps     0;

Qy    1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
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Qy  241 CACCCCATCT 250
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Db  690 CACCCCATCT 699

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LOCUS       BD173198                960 bp    DNA       linear    PAT 18-FEB-2003
DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding
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ACCESSION   BD173198
VERSION     BD173198.1  GI:28414507
KEYWORDS    JP 2002238588-A/14.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: JP 2002238588-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT     OS  Homo sapiens (human)
            PN  JP 2002238588-A/14
            PD  27-AUG-2002
            PF  18-DEC-2001 JP 2001385315
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            WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
            JIAN ZHENG,
            PI   JEAN YUAN
            PC   C12N15/09,C07K14/435,C07K16/18,C07K19/00,C12N1/19,C12N1/21, PC
            C12N5/10,
            PC   C12P21/02//(C12P21/08,(C12N1/19,C12R1:08),(C12N1/21,C12R1:19),
            PC   (C12N5/10,C12R1:91),C12N15/00,C12N5/00,(C12N5/00,C12R1:91) CC
            Secreted and transmembrane polypeptides and nucleic CC   acids
            encoding the same
FH   Key          Location/Qualifiers
FT   source       1..960
FT                /organism='Homo sapiens (human)'.

FEATURES             Location/Qualifiers
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                     /mol_type="genomic DNA"
                     /db_xref="taxon:9606"

ORIGIN
Query Match       99.6%;   Score 249;  DB 6;  Length 960;
Best Local Similarity   99.6%;   Pred. No. 5.2e-56;
Matches 249;  Conservative   0;  Mismatches    1;  Indels    0;  Gaps     0;

Qy    1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
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Db  450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 509

Qy   61 CCCACCCTGACCTCCATGGCCCTCTCCAGGACTCCCAACCCTCTGCTGCTGTTTCCATGGCCCA 120
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Db  510 CCCACCCTGACCTCCATGGCCCTCTCCAGGACTCCCAACCCTCTGCTGCTGTTTCCATGGCCCA 569

Qy  121 GACACAGATCCGGCTGCAGATGGCCCCTGTCTGTGTTTCCATGGCCGCC 180
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Db  570 GACACAGATCCGGCTGCAGATGGCCCCTGTCTGTGTTTCCATGGCCGCC 629

Qy  181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC 240
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Db  630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC 689

Qy  241 CACCCCATCT 250
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Db  690 CACCCCATCT 699

RESULT 11
BD175232
LOCUS       BD175232                960 bp    DNA       linear    PAT 18-MAR-2003
DEFINITION  Secretory and transmembrane polypeptide and nucleic acid encoding
            the same.
ACCESSION   BD175232
VERSION     BD175232.1  GI:29120928
KEYWORDS    JP 2002253280-A/14.
SOURCE      Homo sapiens (human)
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Db    510  CCCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 569
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Qy    121  GACACAGATCGCCTGCAGATGGCGCCCTCCAACCCTCTCTGCTCTGTTTCCATGGCCCA 180

Db    570  GACACAGATCGCCTGCAGATGGCGCCCTCCAACCCTCTCTGCTCTGTTTCCATGGCCCA 629
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Qy    181  GCATTCTCCACCCTTAACCCTGTGCTCAGGCACTCTTCCCCAGGAAGCCTTCCCTGCC 240

Db    630  GCATTCTCCACCCTTAACCCTGTGCTCAGGCACTCTTCCCCAGGAAGCCTTCCCTGCC 689
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Qy    241  CACCCCATCT 250

Db    690  CACCCCATCT 699
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RESULT 12

AY358912
LOCUS   AY358912   960 bp   mRNA   linear   PRI 03-OCT-2003
DEFINITION   Homo sapiens clone DNA34435 prostate stem cell A (UNQ206) mRNA,
             partial cds.
ACCESSION   AY358912
VERSION   AY358912.1 GI:37182941
KEYWORDS   FLI_CDNA.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS   Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
             Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B.,
             Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.E.,
             Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S.,
             Lee,J., Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C.,
             Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V.,
             Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieand,D., Woods,K.,
             Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
             Goddard,A., Wood,W.I. and Godowski,P.
TITLE   The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
             Effort to Identify Novel Human Secreted and Transmembrane Proteins:
             A Bioinformatics Assessment
JOURNAL   Genome Res. 13 (10), 2265-2270 (2003)
PUBMED   12975309
REFERENCE   2 (bases 1 to 960)
AUTHORS   Clark,H.F.
TITLE   Direct Submission
JOURNAL   Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
             Inc., 1 DNA Way, South San Francisco, CA 94080, USA
FEATURES   Location/Qualifiers
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                     /db_xref="taxon:9606"
                     /clone="DNA34435"
     gene   <1..960
                     /locus_tag="UNQ206"
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                     /locus_tag="UNQ206"
                     /note="PRO232"
                     /codon_start=2
                     /product="prostate stem cell A"
                     /protein_id="AAQ89271.1"
                     /db_xref="GI:37182942"
                     /translation="LLALLMAGLALQPGTALLCYSCKAQVSNEDCLQVENCTQLGEQC
                     WTARIRAVGLLTVISKGCSLNCVDDSQDYYVGKKNITCCDTDLCNASGAHALQPAAAI
                     LALLPALGLLWGPGQL"
ORIGIN
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Query Match   99.6%; Score 249; DB 9; Length 960;
Best Local Similarity   99.6%; Pred. No. 5.2e-56;
Matches 249; Conservative   0; Mismatches   0; Indels   1; Gaps   0;

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Qy    1    GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
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Db
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ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
             Yuan,J.
TITLE   Secretory and transmembrane polypeptide and nucleic acid encoding
             the same
JOURNAL   Patent: JP 2002253280-A 14 10-SEP-2002;
             GENENTECH INC
COMMENT   OS   Homo sapiens (human)
             PN   JP 2002253280-A/14
             PD   10-SEP-2002
             PF   18-DEC-2001 JP 2001385319
             PR   17-SEP-1997 US   60/059115,17-SEP-1997 US   60/059184 PR
             17-SEP-1997 US   60/059122,17-SEP-1997 US   60/059117 PR
             17-SEP-1997 US   60/059113,17-SEP-1997 US   60/059121 PR
             17-SEP-1997 US   60/059119,18-SEP-1997 US   60/059263 PR
             18-SEP-1997 US   60/059266,15-OCT-1997 US   60/062125 PR
             17-OCT-1997 US   60/062287,17-OCT-1997 US   60/062285 PR
             21-OCT-1997 US   60/063486,24-OCT-1997 US   60/062816 PR
             24-OCT-1997 US   60/062814,24-OCT-1997 US   60/063127 PR
             24-OCT-1997 US   60/063120,24-OCT-1997 US   60/063121 PR
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             29-OCT-1997 US   60/063704,29-OCT-1997 US   60/063435 PR
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             29-OCT-1997 US   60/063732,31-OCT-1997 US   60/064103 PR
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             17-NOV-1997 US   60/065846,18-NOV-1997 US   60/065693 PR
             21-NOV-1997 US   60/066120,21-NOV-1997 US   60/066364 PR
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             24-NOV-1997 US   60/066453,25-NOV-1997 US   60/066840 PI
             WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
             JIAN ZHENG,
             PI   JEAN YUAN
             PC   C12N15/09,A61K45/00,A61P1/00,A61P13/12,A61P17/00,A61P17/06, PC
             A61P25/00,
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             PC   C07K19/00,
             PC   C12N1/19,C12N1/21,C12N5/10//A61K38/00,A61K39/395,A61K39/395,
             PC   A61P43/00,
             PC   C12P21/08,(C12N1/19,C12R1:645),(C12N1/21,C12R1:19),(C12N5/10,
             PC   C12R1:91)
             PC   C12N15/00,A61K37/02,(C12N5/00,C12R1:91) CC
             Secretory and transmembrane polypeptide and nucleic acid   CC
             encoding the same
FH   Key   Location/Qualifiers
FT   source   1..960
                     /organism="Homo sapiens"
                     /mol_type="genomic DNA"
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ORIGIN
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Query Match         99.6%;  Score 249;  DB 6;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 5.2e-56;
Matches 249;  Conservative    0;  Mismatches    0;  Indels    1;  Gaps    0;

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Qy    1    GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
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Db    450  GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 509

Qy    61   CCCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTTCTAGT 120
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Db    656 GCATTCTCCACCCTTAACCCTGTCGTCTGCTCAGGCACCTCTTCCCCCAGGAGGCCTTCCCCTGCC 715
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Db    716 CACCCCATCT 725
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RESULT 14
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LOCUS   BC023582   1015 bp   mRNA   linear   PRI 19-DEC-2003
DEFINITION Homo sapiens prostate stem cell antigen, mRNA (cDNA clone MGC:22972
            IMAGE:4840974), complete cds.
ACCESSION   BC023582
VERSION   BC023582.2 GI:40225653
KEYWORDS   MGC.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 1015)
  AUTHORS   Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G.,
            Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D.,
            Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,
            Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F.,
            Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,
            Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L.,
            Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S.,
            Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J.,
            Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J.,
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            Fahey,J., Helton,E., Ketteman,M., Madan,A., Rodrigues,S.,
            Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y.,
            Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D.,
            Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M.,
            Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smailus,D.E.,
            Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
  TITLE   Generation and initial analysis of more than 15,000 full-length
            human and mouse cDNA sequences
  JOURNAL   Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
REFERENCE   2 (bases 1 to 1015)
  AUTHORS   Strausberg,R.
  TITLE   Direct Submission
  JOURNAL   Submitted (05-FEB-2002) National Institutes of Health, Mammalian
            Gene Collection (MGC), Cancer Genomics Office, National Cancer
            Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
            USA
REMARK   NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT   On Dec 19, 2003 this sequence version replaced gi:23958165.
            Contact: MGC help desk
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC/DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC),
            Gaithersburg, Maryland;
            Web site: http://www.nisc.nih.gov/
            Contact: nisc_mgc@nhgri.nih.gov
            Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
            Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
            Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
            Hansen,N., Ho,-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
            Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
            McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
            Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
            Young,A., Zhang,L.-H. and Green,E.D.
            Clone distribution: MGC clone distribution information can be found
            through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
            Series: IRAL Plate: 33 Row: m Column: 19
            This clone was selected for full length sequencing because it
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Db    450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 509
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Qy     61 CCCCACCCTGACCTCCACCATGGCCCTTCCACGGACTCCACCCGGCAGATCAGCTCTAGT 120
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Qy    121 GACACAGATCCGCTGCGAGATGGCCCCTGCGTTCTCTGCTGTTTCCATGGCCCCA 180
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Qy    181 GCATTCTCCACCCTTAACCCTGTCGTCAGGCGACCTCTTCCCCCAGGAAGGCCTTCCCTGCC 240
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Db    630 GCATTCTCCACCCTTAACCCTGTCGTCAGGCGACACCTCTTCCCCCAGGAAGGCCTTCCCTGCC 689
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RESULT 13
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LOCUS   BD076397   979 bp   DNA   linear   PAT 27-AUG-2002
DEFINITION Human protein having transmembrane domain and DNA encoding the
            same.
ACCESSION   BD076397
VERSION   BD076397.1 GI:22622000
KEYWORDS   JP 2001519154-A/11.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 979)
  AUTHORS   Kato,S., Kimura,T., Sekine,S. and Kobayashi,M.
  TITLE   Human protein having transmembrane domain and DNA encoding the same
  JOURNAL   Patent: JP 2001519154-A 11 23-OCT-2001;
            SAGAMI CHEMICAL RESEARCH CENTER,PROTEGENE INC
COMMENT   OS   Homo sapiens (human)
            PN   JP 2001519154-A/11
            PD   23-OCT-2001
            PF   05-OCT-1998 JP 2000515001
            PI   SEISHI KATO,TOMOKO KIMURA,SHINGO SEKINE,MIDORI KOBAYASHI PC
            C12N15/09,C07K14/47,C12N5/10,C12N15/00,C12N5/00 CC Human protein
            having transmembrane domain
            and DNA encoding the
            CC   same
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ORIGIN
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                            /organism='Homo sapiens (human)'.

Query Match   99.6%;   Score 249;   DB 6;   Length 979;
Best Local Similarity 99.6%;   Pred. No. 5.2e-56;
Matches 249;   Conservative 0;   Mismatches 0;   Indels 1;   Gaps 0;
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Qy     61 CCCCACCCTGACCTCCACCATGGCCCTTCCACGGACTCCACCCGGCAGATCAGCTCTAGT 120
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Db    536 CCCCACCCTGACCTCCACCATGGCCCTTCCACGGACTCCACCCGGCAGATCAGCTCTAGT 595
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Qy    121 GACACAGATCCGCTGCGAGATGGCCCCTGCGTTCTCTGCTGTTTCCATGGCCCCA 180
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Qy    181 GCATTCTCCACCCTTAACCCTGTCGTCAGGCGACCTCTTCCCCCAGGAAGGCCTTCCCTGCC 240
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                    /tissue_type="Skin, melanotic melanoma, high MDR."
                    /clone_lib="NIH_MGC_49"
                    /lab_host="DH10B-R"
                    /note="Vector: pOTB7"
     gene   1..1015
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                    /db_xref="LocusID:8000"
                    /db_xref="MIM:602470"
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                    /product="prostate stem cell antigen"
                    /protein_id="AAH23582.1"
                    /db_xref="GI:40225654"
                    /db_xref="LocusID:8000"
                    /db_xref="MIM:602470"
                    /translation="MKAVLLALLMAGLALQPGTALLCYSCKAQVSNEDCLQVENCTQL
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                    AAILALPALGLLLWGPGQL"
     misc_feature   67..288
                    /gene="PSCA"
                    /note="UPAR_LY6; Region: u-PAR/Ly-6 domain. This
                    extracellular disulphide bond rich domain is related to
                    pfam0008"
                    /db_xref="CDD:pfam00021"
ORIGIN

Query Match   99.6%;   Score 249; DB 9;   Length 1015;
Best Local Similarity   99.6%;   Pred. No. 5.1e-56;
Matches 249;   Conservative   0; Mismatches 1; Indels   0; Gaps   0;

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Db   467 GTCCTCGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 526

Qy   61 CCCACCCCTGACCCTCCATGGCCCTCTCCAGGACTCCCACCCGGCGAGATCAGCTCTAGT 120
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Qy   121 GACACAGATCCGCCTGCAGATGGCCCTCCAAACCCTCTGCTGCGTGTTTCCATGGCCCA 180
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Qy   181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 240
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Db   647 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 706

Qy   241 CACCCCATCT 250
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Db   707 CACCCCATCT 716

RESULT 15
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LOCUS   AC015718   157839 bp   DNA   linear   HTG 27-MAR-2003
DEFINITION Homo sapiens clone RP11-119A16, 4 unordered pieces.
ACCESSION   AC015718
VERSION   AC015718.6 GI:18642769
KEYWORDS   HTG; HTGS_PHASE1; HTGS_FULLTOP; HTGS_CANCELLED.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 157839)
  AUTHORS   Birren,B., Linton,L., Nusbaum,C. and Lander,E.
  TITLE   Homo sapiens chromosome, clone RP11-119A16

  JOURNAL   Unpublished
REFERENCE   2 (bases 1 to 157839)
  AUTHORS   Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M.,
            Baldwin,J., Barna,N., Beckerly,R., Boguslavkiy,L., Boukhgalter,B.,
            Brown,A., Castle,A., Colangelo,M., Collins,S., Collymore,A.,
            Cooke,P., DeArellano,K., Dewar,K., Domino,M., Donelan,L., Doyle,M.,
            Ferreira,P., FitzHugh,W., Forrest,C., Funke,R., Gage,D.,
            Galagan,J., Gardyna,S., Grant,G., Hagos,B., Heaford,A., Horton,L.,
            Howland,J.C., Johnson,R., Jones,C., Kann,L., Karatas,A., Klein,J.,
            Lehoczky,J., Lieu,C., Locke,K., Macdonald,P., Marquis,N.,
            McEwan,P., McGurk,A., McKernan,K., McLaughlin,J., Meldrim,J.,
            Morrow,J., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P.,
            Peterson,K., Pollara,V., Riley,R., Roy,A., Santos,R., Severy,P.,
            Stange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J.,
            Tesfaye,S., Tirrell,A., Vassiliev,H., Vo,A., Wheeler,J., Wu,X.,
            Wyman,D., Ye,W.J., Zimmer,A. and Zody,M.
  TITLE   Direct Submission
  JOURNAL   Submitted (17-NOV-1999) Whitehead Institute/MIT Center for Genome
            Research, 320 Charles Street, Cambridge, MA 02141, USA
REFERENCE   3 (bases 1 to 157839)
  AUTHORS   Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N.,
            Anderson,S., Barna,N., Bastien,V., Boguslavkiy,L., Boukhgalter,B.,
            Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B.,
            Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A.,
            Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S.,
            Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S.,
            Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N.,
            Hagos,B., Horton,L., Hulme,M., Iliev,I., Johnson,N., Jones,C.,
            Kamat,A., Karatas,A., Kells,C., LaRocque,K., Lamazares,R.,
            Landers,T., Lehoczky,J., Levine,R., Liu,G., MacLean,C.,
            Macdonald,P., Major,J., Marquis,N., Matthews,C., McCarthy,M.,
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            Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J.,
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            Topham,K., Travers,M., Travis,N., Trigilio,J., Vassiliev,H.,
            Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G.,
            Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
  TITLE   Direct Submission
  JOURNAL   Submitted (27-MAR-2003) Whitehead Institute/MIT Center for Genome
            Research, 320 Charles Street, Cambridge, MA 02141, USA
COMMENT   On Feb 9, 2002 this sequence version replaced gi:14029953.
            All repeats were identified using RepeatMasker:
            Smit,A.F.A. & Green,P. (1996-1997)
            http://ftp.genome.washington.edu/RM/RepeatMasker.html
            --------------- Genome Center
              Center: Whitehead Institute/ MIT Center for Genome Research
              Center code: WIBR
              Web site: http://www-seq.wi.mit.edu
              Contact: sequence_submissions@genome.wi.mit.edu
            --------------- Project Information
              Center project name: L1404
              Center clone name: 119_A_16
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            * NOTE: This is a 'working draft' sequence. It currently
            * consists of 4 contigs. The true order of the pieces
            * is not known and their order in this sequence record is
            * arbitrary. Gaps between the contigs are represented as
            * runs of N, but the exact sizes of the gaps are unknown.
            * This record will be updated with the finished sequence
            * as soon as it is available and the accession number will
            * be preserved.
            *   1   7973: contig of 7973 bp in length
            *   7974   8073: gap of 100 bp
            *   8074   81857: contig of 73784 bp in length
            *   81858   81957: gap of 100 bp
            *   81958   136278: contig of 54321 bp in length
            *   136279   136378: gap of 100 bp
            *   136379   157839: contig of 21461 bp in length.

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                  /db_xref="taxon:9606"
                  /clone="RP11-119A16"
                  /clone_lib="RPCI-11 Human Male BAC"

ORIGIN

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Best Local Similarity   99.6%;  Pred. No. 2.8e-56;
Matches 249;  Conservative   0;  Mismatches   0;  Indels   1;  Gaps   0;

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Db  20285 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 20344

Qy     61 CCCCACCCTGACCCTCCCATGGCCCTTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db  20405 GACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTGCTGCTGTTTCCATGCCCA 20464

Qy    181 GCATTCTCCACCCTTAACCCTGTCAGGCACCCTTCCCCAGGAAGCCTTCCCTGCC 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Job time : 1254.87 secs
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                    GenCore version 5.1.6
           Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:     September 18, 2004, 04:33:41 ; Search time 163.428 Seconds
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Title:            US-09-079-874-8
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Scoring table:    IDENTITY_NUC
                  Gapop 10.0 , Gapext 1.0

Searched:         3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters:        6747726

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing:  Minimum Match 0%
                  Maximum Match 100%
                  Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	249	99.6	249	250	2	AAV80393	Aav80393 Nucleotid
2	249	99.6	249	250	2	AAV68610	Aav68610 Human PS1
3	249	99.6	249	758	2	AAZ24404	Aaz24404 Human bla
4	249	99.6	249	960	2	AAX52217	Aax52217 Protein P
5	249	99.6	249	960	4	ADC78337	Adc78337 Human PRO
6	249	99.6	249	960	6	AAF72375	Aaf72375 Human PRO
7	249	99.6	249	960	6	ABK40257	Abk40257 cDNA enco
8	249	99.6	249	960	7	ACA58909	Aca58909 Human PRO
9	249	99.6	249	960	7	ACA58306	Aca58306 cDNA enco
10	249	99.6	249	960	7	ACA60013	Aca60013 Human cDN
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24	249	99.6	249	960	8	ADA42198	Ada42198 Human sec
25	249	99.6	249	960	8	ACD23142	Acd23142 Human PRO
26	249	99.6	249	960	8	ADA16477	Ada16477 Human sec
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29	249	99.6	249	960	8	ADA17121	Ada17121 Human sec
30	249	99.6	249	960	8	ADA42624	Ada42624 Human sec
31	249	99.6	249	960	8	ACD23504	Acd23504 Human PRO
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36	249	99.6	249	960	9	ADC40039	Adc40039 Human sec
37	249	99.6	249	960	9	ADC18867	Adc18867 Human sec
38	249	99.6	249	960	9	ADC34163	Adc34163 Human sec
39	249	99.6	249	960	9	ADC29218	Adc29218 Human sec
40	249	99.6	249	960	9	ADC28749	Adc28749 Human sec
41	249	99.6	249	960	9	ADA40634	Ada40634 Human sec
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ALIGNMENTS

```
RESULT 1
AAV80393
ID   AAV80393 standard; DNA; 250 BP.
XX
AC   AAV80393;
XX
DT   23-FEB-1999  (first entry)
XX
DE   Nucleotide sequence of UT116 gene-specific clone 1900086.
XX
KW   UT116; urinary tract; epitope; antigen; detection; diagnosing;
KW   monitoring; in vivo imaging; cancer; agonist; antibody; tumour;
KW   metastasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO9851824-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;  98WO-US009972.
XX
PR   15-MAY-1997;  97US-00856652.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA,  Cohen M,  Colpitts TL,  Friedman PN,  Granados EN;
PI   Hodges SC,  Klass MR,  Kratochvil JD,  Roberts-Rapp L,  Russell JC;
PI   Stroupe SD;
XX
DR   WPI; 1999-045237/04.
XX
PT   New method for detecting diseases of the urinary tract - comprises use of
PT   a UT116 polynucleotide, protein or antibodies, used for preventing and
PT   treating urinary tract infections and cancer.
XX
PS   Claim 1; Fig 1A-C; 113pp; English.
XX
CC   Sequences AAV80386 to AAV80396 represent partially overlapping nucleotide
CC   sequences of the UT116 gene-specific clones derived from urinary tract
CC   tissue. The invention relates to a method of detecting the presence of a
CC   target UT116 polynucleotide in a test sample using these UT116-specific
CC   sequences. Host cells transfected with an expression vector containing
CC   the UT116 gene can be used to produce a UT116 polypeptide recombinantly.
CC   This polypeptide has at least one UT116 epitope which can be used in a
CC   method for detecting UT116 antigen in a test sample. The polynucleotides
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CC   and polypeptides are useful for detecting, diagnosing, monitoring,
CC   staging, prognosticating, in vivo imaging, preventing, treating or
CC   determining the predisposition of a subject to diseases and conditions of
CC   the urinary tract, such as urinary tract cancer. Antibodies specifically
CC   binding to an epitope of UT116 antigen, and agonists are useful for
CC   treating urinary tract diseases, tumours and metastases
XX
SQ   Sequence 250 BP; 42 A; 108 C; 44 G; 55 T; 0 U; 1 Other;

Query Match     99.6%;  Score 249;  DB 2;  Length 250;
Best Local Similarity   100.0%;  Pred. No. 7.1e-59;
Matches  250;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

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Db      181 GCATTCTCCACCCTTAACCCTGTCTCAGGCACCCTTCCCCCAGGAAGCCTTCCCTGCC 240

Qy      241 CACCCCATCT 250
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Db      241 CACCCCATCT 250

RESULT 2
AAV68610
ID   AAV68610 standard; cDNA; 250 BP.
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AC   AAV68610;
XX
DT   16-MAR-1999  (first entry)
XX
DE   Human PS116 EST clone 1900086.
XX
KW   Human; expressed sequence tag; EST; prostate disease; diagnosis; tumour;
KW   detection; therapy; prostate cancer; metastasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO9851805-A1.
XX
PD   19-NOV-1998.
XX
PF   16-MAY-1998;  98WO-US010041.
XX
PR   15-MAY-1997;  97US-00855653.
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PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA,  Cohen M,  Colpitts TL,  Friedman PN,  Gordon J;
PI   Granados EN,  Hodges SC,  Klass MR,  Kratochvil JD,  Roberts-Rapp L;
PI   Russell JC,  Stroupe SD;
XX
DR   WPI; 1999-045234/04.
XX
PT   New method for detecting diseases of the prostate - comprises use of a
PT   PS116 polynucleotide, protein or antibodies, useful for preventing and
PT   treating prostate infections and cancer.
XX
PS   Claim 1; Page 93; 118pp; English.
XX
CC   This sequence represents an expressed sequence tag (EST) clone of the
CC   PS116 gene isolated from a human prostate tissue library. This sequence
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CC   can be used in the method of the invention for detecting a target PS116
CC   polynucleotide (PN), that comprises: contacting a sample with at least 1
CC   PS116-specific PN or complement; and detecting the target PS116 PN, where
CC   the specific PN has at least 50% identity with this sequence. The PNs,
CC   PS116 polypeptides or PS116 amplicons are used to detect prostate
CC   disease. Antibodies (ABs) against PS116 are used in assay kits to detect
CC   PS116 antigen or anti-PS116 Ab, and the Abs are preferably attached to a
CC   solid phase. The polypeptides are used for detecting PS116-specific Abs
CC   in a sample, and for producing Abs after immunising a subject. Plasmids
CC   encoding PS116 epitopes can also be administered to a subject to obtain
CC   Abs. The cDNAs and polypeptides are useful for detecting, diagnosing,
CC   staging, monitoring, prognosticating, in vivo imaging, preventing,
CC   treating or determining the predisposition of a subject to diseases and
CC   conditions of the prostate, such as prostate cancer. The Abs and agonists
CC   or inhibitors are useful for treating prostate diseases, tumours and
CC   metastases
XX
SQ   Sequence 250 BP; 42 A; 108 C; 44 G; 55 T; 0 U; 1 Other;

Query Match     99.6%;  Score 249;  DB 2;  Length 250;
Best Local Similarity   100.0%;  Pred. No. 7.1e-59;
Matches  250;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

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Qy       61 CCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 120
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Db      181 GCATTCTCCACCCTTAACCCTGTCTCAGGCACCCTTCCCCCAGGAAGCCTTCCCTGCC 240

Qy      241 CACCCCATCT 250
            ||||||||||
Db      241 CACCCCATCT 250

RESULT 3
AAZ24404
ID   AAZ24404 standard; cDNA; 758 BP.
XX
AC   AAZ24404;
XX
DT   14-FEB-2000  (first entry)
XX
DE   Human bladder tumour cDNA library derived EST 16.
XX
KW   Expressed sequence tag; human; bladder; tumour; cancer; cytostatic;
KW   treatment; gene therapy; EST; ss.
XX
OS   Homo sapiens.
XX
PN   DE19818619-A1.
XX
PD   28-OCT-1999.
XX
PF   21-APR-1998;  98DE-01018619.
XX
PR   21-APR-1998;  98DE-01018619.
XX
PA   (META-) METAGEN GES GENOMFORSCHUNG MBH.
XX
PI   Rosenthal A,  Specht T,  Hinzmann B,  Schmitt A,  Pilarsky C,  Dahl E;
XX
DR   WPI; 1999-612028/53.
XX
```

PT   New nucleic acid sequences expressed in bladder tumor tissue, and derived
PT   polypeptides, for treatment of bladder tumor and identification of
PT   therapeutic agents.
XX
PS   Claim 3; Page 72; 132pp; German.
XX
CC   This invention describes novel polypeptide fragments (I) and the
CC   polynucleotides (II) that encode them that are highly expressed in a
CC   human bladder tumour and which have cytostatic activity. (II) are used
CC   for recombinant expression of (I) and to isolate complete genes. (I) are
CC   used to identify agents suitable for treatment of bladder cancer, to
CC   directly treat this form of cancer (including expression from gene
CC   therapy vectors) or are used in a preparation for cancer treatment. (I)
CC   is also used for the generation of specific antibodies. (II) are
CC   identified by assembling ESTs (expressed sequence tags) from a particular
CC   tissue type before comparison of expression patterns. This allows a
CC   significantly longer fragment of the gene to be revealed, and therefore
CC   reduces the number of failures associated with the fact that ESTs from
CC   different libraries may represent different parts of the same unknown
CC   gene, distorting the estimated frequency of occurrence in a particular
CC   tissue. AA243260-Z43309 represent expressed sequence tag (EST) fragments
CC   isolated from a human bladder tumour cDNA library which encode the
CC   proteins represented in AAY66143-Y66198
XX
SQ   Sequence 758 BP; 147 A; 261 C; 212 G; 138 T; 0 U; 0 Other;

Query Match   99.6%;   Score 249; DB 2; Length 758;
Best Local Similarity 99.6%;   Pred. No.9e-59;
Matches 249; Conservative   0; Mismatches   0;   Indels   1;   Gaps   0;

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Qy     61 CCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 120
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Qy    121 GACACAGATCCGCTGCGAGATGGCCCCTCCAACCCTCTCTGCTGCGTGTTCCATGGCCCA 180
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Db    363 GACACAGATCCGCTGCGAGATGGCCCCTCCAACCCTCTCTGCTGCGTGTTTCCATGGCCCA 422

Qy    181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACACCTTCCCCCAGGAAGCCTTCCCTGCC 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    423 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACACCTTCCCCCAGGAAGCCTTCCCTGCC 482

Qy    241 CACCCCATCT 250
          ||||||||||
Db    483 CACCCCATCT 492
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RESULT 4
AAX52217
ID   AAX52217 standard; DNA; 960 BP.
XX
AC   AAX52217;
XX
DT   25-JUN-1999 (first entry)
XX
DE   Protein PRO232 cDNA clone DNA34435-1140.
XX
KW   Secreted protein; transmembrane protein; human; enterocolitis;
KW   Zollinger-Ellison syndrome; gastrointestinal ulceration;
KW   congenital microvillus atrophy; skin disease; cell growth;
KW   abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW   Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
KW   dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;
KW   wound healing; tissue repair; ss.
XX
OS   Homo sapiens.
XX
PN   WO9914328-A2.
XX

PD   25-MAR-1999.
XX
PF   16-SEP-1998;   98WO-US019330.
XX
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0062125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062816P.
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PR   24-OCT-1997;   97US-0063120P.
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PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063341P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0065186P.
PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0065693P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0066364P.
PR   24-NOV-1997;   97US-0066453P.
PR   24-NOV-1997;   97US-0066466P.
PR   24-NOV-1997;   97US-0066511P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   25-NOV-1997;   97US-0066840P.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
XX
DR   WPI; 1999-229533/19.
DR   P-PSDB; AAY13347.
XX
PT   New isolated human genes and polypeptides used in, e.g. treatment of
PT   gastrointestinal ulceration.
XX
PS   Claim 2; Fig 8; 320pp; English.
XX
CC   AAX52213-74 encode secreted and transmembrane human proteins, and are
CC   obtained from cDNA libraries, prepared from fetal lung, fetal kidney,
CC   fetal brain, fetal liver, fetal retina. The encoded polypeptides have
CC   specific uses based on their homology to known polypeptides, e.g. PRO211
CC   and PRO217 can be used for disorders associated with the preservation and
CC   maintenance of gastrointestinal mucosa and the repair of acute and

XX
PA (GETH) GENENTECH INC.
XX
PI Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;
PI Yuan J;
XX
DR WPI; 2000-271434/23.
DR P-PSDB; ADC78338.
XX
PT Novel nucleic acids encoding secreted and transmembrane polypeptides with
PT homology, e.g. to growth and cancer-associated antigens.
XX
PS Claim 2; SEQ ID NO 17; 355pp; English.
XX
CC The invention relates to a novel nucleic acid encoding a PRO polypeptide.
CC The polypeptides and polynucleotides of the invention may be useful as
CC research tools and as therapeutics for treating enterocolitis, Zollinger-
CC Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
CC Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal
CC scarring and wound healing, nerve repair, thrombosis, bone and/or
CC cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
CC sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
CC infertility, premature aging, AIDS, diabetes complications and stroke.
CC The molecules may also be utilised during gene therapy procedures and
CC transgenic animal production. The current sequence is that of the human
CC PRO cDNA of the invention.
XX
SQ Sequence 960 BP; 182 A; 327 C; 274 G; 177 T; 0 U; 0 Other;

Query Match   99.6%; Score 249; DB 3; Length 960;
Best Local Similarity   99.6%; Pred. No. 9.5e-59;
Matches 249;   Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCGCACCCCGTN   60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |
Db 450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCGCACCCCGTC 509

Qy   61 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 510 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 569

Qy 121 GACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCGTGCTGTTTCCATGGCCCA 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 570 GACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCGTGCTGTTTCCATGGCCCA 629

Qy 181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCAGGAAGCCTTCCCTGCC 240
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy 241 CACCCCATCT 250
         ||||||||||
Db 690 CACCCCATCT 699

RESULT 6
AAF72375
ID AAF72375 standard; cDNA; 960 BP.
XX
AC AAF72375;
XX
DT 24-APR-2001 (first entry)
XX
DE Human PRO232 cDNA.
XX
KW Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
KW antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
KW antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
KW antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes;
KW ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
KW ischaemia; inflammation; expressed sequence tag; EST; ss.
XX
OS Homo sapiens.
XX

CC chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome,
CC gastrointestinal ulceration and congenital microvillus atrophy), skin
CC diseases associated with abnormal keratinocyte differentiation (e.g.
CC psoriasis, epithelial cancers such as lung squamous cell carcinoma of the
CC vulva and gliomas), potent effects on cell growth and development,
CC diseases related to growth or survival of nerve cells including
CC Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer.
CC PRO265 can be used as for fibromodulin, e.g. for reducing dermal
CC scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may
CC be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can
CC be used as an anti-thrombotic agent; PRO287 polypeptides and portions may
CC have therapeutic applications in wound healing and tissue repair; PRO317
CC can be used for treating problems of the kidney, uterus, endometrium,
CC blood vessels, or related tissue, e.g. in the heart of genital tract
XX
SQ Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%; Score 249; DB 2; Length 960;
Best Local Similarity   99.6%; Pred. No. 9.5e-59;
Matches 249;   Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCGTGTN   60
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |
Db 450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCGTC 509

Qy   61 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 510 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 569

Qy 121 GACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCGTGCTGTTTCCATGGCCCA 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 570 GACACAGATCCGCCTGCGAGATGGCCCCTCCAACCCTCTCGTGCTGTTTCCATGGCCCA 629

Qy 181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCAGGAAGCCTTCCCTGCC 240
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy 241 CACCCCATCT 250
         ||||||||||
Db 690 CACCCCATCT 699

RESULT 5
ADC78337
ID ADC78337 standard; cDNA; 960 BP.
XX
AC ADC78337;
XX
DT 01-JAN-2004 (first entry)
XX
DE Human PRO232 cDNA.
XX
KW antiinflamatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian;
KW nootropic; neuroprotective; vasotropic; chemotaxic; angiogenic;
KW antiatteriosclerotic; cardiani; antidiabetic; antiarthritic; antirheumatic;
KW thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;
KW gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;
KW Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;
KW nerve repair; thrombosis; bone; cartilage formation; angiogenesis;
KW asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;
KW atherosclerosis; cardiac injury; infertility; premature aging; AIDS;
KW diabetes; stroke; gene therapy; transgenic; PRO; human; ss; gene.
XX
OS Homo sapiens.
XX
PN WO20001579-A2.
XX
PD 23-MAR-2000.
XX
PF 15-SEP-1999; 99WO-US021090.
XX
PR 16-SEP-1998; 98WO-US019330.

```
Db            630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 689
                  |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy            241 CACCCCATCT 250
                  ||||||||||
Db            690 CACCCCATCT 699

RESULT 7
ABK40257
ID   ABK40257 standard; cDNA; 960 BP.
XX
AC   ABK40257;
XX
DT   15-JUL-2002 (first entry)
XX
DE   cDNA encoding human PRO232 polypeptide.
XX
KW   Human; PRO; benign tumour; malignant tumour; lymphoid malignancy;
KW   leukaemia; neuronal disorder; stromal disorder; blastocoelic disorder;
KW   inflammatory disorder; immune disorder; angiogenic disorder;
KW   gene therapy; cytostatic; neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   WO200153486-A1.
XX
PD   26-JUL-2001.
XX
PF   11-FEB-2000; 2000WO-US003565.
XX
PR   08-MAR-1999;   99WO-US005028.
PR   11-MAR-1999;   99US-0123972P.
PR   11-MAY-1999;   99US-0133459P.
PR   02-JUN-1999;   99WO-US012252.
PR   22-JUN-1999;   99US-0140650P.
PR   22-JUN-1999;   99US-0140653P.
PR   20-JUL-1999;   99US-0144758P.
PR   26-JUL-1999;   99US-0145698P.
PR   28-JUL-1999;   99US-0146222P.
PR   17-AUG-1999;   99US-0149395P.
PR   31-AUG-1999;   99US-0151689P.
PR   01-SEP-1999;   99WO-US020111.
PR   15-SEP-1999;   99WO-US021090.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   01-DEC-1999;   99WO-US028634.
PR   05-JAN-2000;   2000WO-US000219.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ, Goddard A, Godowski PJ,  Gurney AL,  Hillan KJ;
PI   Marsters SA,  Pan J,  Pitti RM,  Roy MA,  Smith V,  Stone DM;
PI   Watanabe CK,  Wood WI;
XX
DR   WPI; 2002-205567/26.
DR   P-PSDB; AAU86131.
XX
PT   Thirty five nucleic acids encoding PRO polypeptides, useful for treating
PT   benign or malignant tumors, leukemias and lymphoid malignancies,
PT   inflammatory, angiogenic and immunologic disorders.
XX
PS   Claim 50; Fig 7; 302pp; English.
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides and the polynucleotide sequences encoding them. The PRO
CC   polypeptides, agonists, antagonists or anti-PRO antibodies are useful for
CC   treating benign or malignant tumours (e.g. renal, kidney, bladder,
CC   breast, etc), leukaemias and lymphoid malignancies, other disorders such
CC   as neuronal, glial, astrocytal, hypothalamic, glandular, macrophagal,
CC   stromal and blastocoelic disorders, inflammatory, immune and angiogenic
CC   disorders. The polynucleotide sequences are also useful in gene therapy.
CC   ABK40254-ABK40288 encode for the human PRO polypeptides of the invention
XX
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PN   WO200104311-A1.
XX
PD   18-JAN-2001.
XX
PF   22-FEB-2000; 2000WO-US004414.
XX
PR   07-JUL-1999;   99US-0143304BP.
PR   26-JUL-1999;   99US-0145698P.
PR   28-JUL-1999;   99US-0146222P.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ,  Botstein D,  Desnoyers L,  Eaton DL,  Ferrara N;
PI   Filvaroff E,  Fong S,  Gao W,  Gerber H,  Gerritsen ME,  Goddard A;
PI   Godowski PJ,  Grimaldi CJ,  Gurney AL,  Hillan KJ,  Kljavin IJ;
PI   Mather JP,  Pan J,  Paoni NF,  Roy MA,  Stewart TA,  Tumas D;
PI   Williams PM,  Wood WI;
XX
DR   WPI; 2001-081051/09.
XX
PT   Sixty one nucleic acids encoding PRO polypeptides which are useful in the
PT   treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous
PT   cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
PT   disease).
XX
PS   Claim 2; Fig 8; 393pp; English.
XX
CC   The present sequence is an EST used to isolate one of sixty one nucleic
CC   acids encoding novel secreted and transmembrane PRO polypeptides. The PRO
CC   polypeptides are useful for treating skin diseases (e.g. psoriasis),
CC   cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders
CC   (e.g. enterocolitis), neurodegenerative diseases (e.g. Alzheimer's
CC   disease, Parkinson's disease), wound repair, cardiovascular disorders
CC   (e.g. endometrial bleeding angiogenesis, ischaemia such as coronary
CC   ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma,
CC   rheumatoid arthritis, multiple sclerosis), infertility, AIDS and diabetes
CC   and retinal disorders such as retinitis pigmentosum. The PRO nucleic
CC   acids have applications in molecular biology, including use as
CC   hybridization probes, and in chromosome and gene mapping
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;
```

```
Query Match             99.6%;  Score 249;  DB 4;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 9.5e-59;
Matches 249;   Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy      1 GTCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTAATGTCTGCACCCCTGTN 60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |
Db    450 GTCCTGTTCCTGAGGCACACATCCTAACGCAAGTCTGACCATGTAATGTCTCACCCCTGTC 509

Qy     61 CCCCACCCCTGACCCTCCACCCATGGCCCTCTCCAGGACTCCCACCCCGCCAGATCAGTCTCTAGT 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    510 CCCCACCCCTGACCCTCCATGGCCCTCTCCAGGACTCCCACCCCGCCAGATCAGTCTCTAGT 569

Qy    121 GACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCCTCGTGCTGCTGTTTCCATGGCCCA 180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    570 GACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCCTCGTGCTGCTGTTTCCATGGCCCA 629

Qy    181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

SQ　Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match　　　　99.6%;　Score 249;　DB 6;　Length 960;
Best Local Similarity　99.6%;　Pred. No. 9.5e-59;
Matches 249;　Conservative　0;　Mismatches　1;　Indels　0;　Gaps　0;

Qy　　　1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
　　　　　 ||||||||||||||||||||||||||||||| |||||||||||||||||||||||||||
Db　　 450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 509

Qy　　 61 CCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 120
　　　　　 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db　　 510 CCCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 569

Qy　　121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGTTCCATGGCCCA 180
　　　　　 |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db　　570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGCTGTTTCCATGGCCCA 629

Qy　　181 GCATTCTCCACCCTTAACCCTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC 240
　　　　　 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db　　630 GCATTCTCCACCCTTAACCCTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC 689

Qy　　241 CACCCCATCT 250
　　　　　 ||||||||||
Db　　690 CACCCCATCT 699

RESULT 8
ACA58909
ID　ACA58909 standard; cDNA; 960 BP.
XX
AC　ACA58909;
XX
DT　16-JUN-2003　(first entry)
XX
DE　Human PRO polynucleotide #4.
XX
KW　Human; PRO; gene; ss; secreted polypeptide; transmembrane polypeptide;
KW　pathological disorder; cardiac insuficiency disorder; protein secretion;
KW　pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
KW　skin disease; keratinocyte differentiation; epithelial cancer; tumour;
KW　lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
KW　cytostatic; cardiant; endocrine; antidiabetic; gastrointestinal;
KW　antiulcer; dermatological; vulnerary.
XX
OS　Homo sapiens.
XX
PN　US2002146709-A1.
XX
PD　10-OCT-2002.
XX
PF　18-JUL-2001; 2001US-00909088.
XX
PR　17-SEP-1997;　97US-0059113P.
PR　17-SEP-1997;　97US-0059115P.
PR　17-SEP-1997;　97US-0059117P.
PR　17-SEP-1997;　97US-0059119P.
PR　17-SEP-1997;　97US-0059121P.
PR　17-SEP-1997;　97US-0059122P.
PR　17-SEP-1997;　97US-0059184P.
PR　18-SEP-1997;　97US-0059263P.
PR　18-SEP-1997;　97US-0059266P.
PR　15-OCT-1997;　97US-0062125P.
PR　17-OCT-1997;　97US-0062285P.
PR　17-OCT-1997;　97US-0062287P.
PR　21-OCT-1997;　97US-0063486P.
PR　24-OCT-1997;　97US-0062814P.
PR　24-OCT-1997;　97US-0062816P.
PR　24-OCT-1997;　97US-0063045P.
PR　24-OCT-1997;　97US-0063120P.
PR　24-OCT-1997;　97US-0061121P.
PR　24-OCT-1997;　97US-0063127P.
PR　24-OCT-1997;　97US-0063128P.
PR　27-OCT-1997;　97US-0063327P.
PR　27-OCT-1997;　97US-0063329P.
PR　28-OCT-1997;　97US-0063541P.
PR　28-OCT-1997;　97US-0063542P.
PR　28-OCT-1997;　97US-0063544P.
PR　28-OCT-1997;　97US-0063549P.
PR　28-OCT-1997;　97US-0063550P.
PR　28-OCT-1997;　97US-0063564P.
PR　29-OCT-1997;　97US-0063435P.
PR　29-OCT-1997;　97US-0063704P.
PR　29-OCT-1997;　97US-0063732P.
PR　29-OCT-1997;　97US-0063734P.
PR　29-OCT-1997;　97US-0063735P.
PR　29-OCT-1997;　97US-0063738P.
PR　29-OCT-1997;　97US-0064215P.
PR　31-OCT-1997;　97US-0063870P.
PR　31-OCT-1997;　97US-0064103P.
PR　03-NOV-1997;　97US-0064248P.
PR　07-NOV-1997;　97US-0064809P.
PR　12-NOV-1997;　97US-0065186P.
PR　17-NOV-1997;　97US-0065846P.
PR　18-NOV-1997;　97US-0065693P.
PR　21-NOV-1997;　97US-0066120P.
PR　21-NOV-1997;　97US-0066364P.
PR　24-NOV-1997;　97US-0066453P.
PR　24-NOV-1997;　97US-0064466P.
PR　24-NOV-1997;　97US-0066511P.
PR　24-NOV-1997;　97US-0066770P.
PR　24-NOV-1997;　97US-0066772P.
PR　10-SEP-1998;　98WO-US018824.
PR　14-SEP-1998;　98WO-US019177.
PR　16-SEP-1998;　98WO-US019330.
PR　17-SEP-1998;　98WO-US019437.
PR　01-DEC-1998;　98WO-US025108.
PR　08-SEP-1999;　99WO-US020594.
PR　13-SEP-1999;　99WO-US020944.
PR　15-SEP-1999;　99WO-US021090.
PR　15-SEP-1999;　99WO-US021547.
PR　05-OCT-1999;　99WO-US023089.
PR　29-NOV-1999;　99WO-US028214.
PR　30-NOV-1999;　99WO-US028313.
PR　01-DEC-1999;　99WO-US028301.
PR　02-DEC-1999;　99WO-US028564.
PR　02-DEC-1999;　99WO-US028565.
PR　16-DEC-1999;　99WO-US030095.
PR　20-DEC-1999;　99WO-US030911.
PR　20-DEC-1999;　99WO-US030999.
PR　05-JAN-2000;　2000WO-US000219.
PR　11-FEB-2000;　2000WO-US003565.
PR　22-FEB-2000;　2000WO-US004414.
PR　24-FEB-2000;　2000WO-US005004.
PR　02-MAR-2000;　2000WO-US005841.
PR　20-MAR-2000;　2000WO-US007377.
PR　30-MAR-2000;　2000WO-US008439.
PR　22-MAY-2000;　2000WO-US014042.
PR　02-JUN-2000;　2000WO-US015264.
PR　28-JUL-2000;　2000WO-US020710.
PR　24-AUG-2000;　2000WO-US023328.
PR　18-SEP-2000;　2000US-00665350.
XX
PA　(GETH) GENENTECH INC.
XX
PI　Ashkenazi A,　Botstein D,　Desnoyers L,　Eaton DL,　Ferrara N;
PI　Filvaroff E,　Fong S,　Gao W,　Gerber H,　Gerritsen ME,　Goddard A;
PI　Godowski PJ,　Grimaldi JC,　Gurney AL,　Hillan KJ,　Kljavin IJ;
PI　Mather JP,　Pan J,　Pacni NF,　Roy MA,　Stewart TA,　Tumas D;
PI　Williams PM,　Wood WI;
XX
DR　WPI; 2003-328338/31.
DR　P-PSDB; ABU71593.
XX
PT　Isolated nucleic acid useful for e.g., treating pathological disorders
PT　encodes a secreted or transmembrane protein.

XX
PS   Claim 2; Fig 8; 473pp; English.
XX
CC   The invention relates to human PRO polypeptides (secreted or
CC   transmembrane polypeptides) and the polynucleotides encoding them. The
CC   PRO polypeptides and polynucleotides can be used in treating pathological
CC   disorders and tumours, in therapeutic treatment of cardiac insufficiency
CC   disorders and in therapeutic treatment of disorders involving protein
CC   secretion by the pancreas, including diabetes. They can also be used in
CC   treating disorders associated with the preservation and maintenance of
CC   gastrointestinal mucosa and the repair of acute and chronic mucosal
CC   lesions, and skin diseases associated with abnormal keratinocyte
CC   differentiation (e.g., psoriases, epithelial cancers such as lung
CC   squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).
CC   The sequences can be used as molecular markers for protein
CC   electrophoresis purposes and can be utilised in protein-protein binding
CC   assays, biochemical screening assays, immunoassays and cell-based assays.
CC   This sequence represents a human PRO polynucleotide of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%; Score 249; DB 7; Length 960;
Best Local Similarity   99.6%; Pred. No. 9.5e-59;
Matches 249; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 509

Qy   61 CCCCACCCTGACCCTCCCATGGCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   510 CCCCACCCTGACCCTCCCATGGCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 569

Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGCTGTTCCATGGCCCA 180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGCTGTTCCATGGCCCA 629

Qy   181 GCAATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   630 GCAATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC 689

Qy   241 CACCCCATCT 250
          ||||||||||
Db   690 CACCCCATCT 699

RESULT 9
ACA58306
ID   ACA58306 standard; cDNA; 960 BP.
XX
AC   ACA58306;
XX
DT   10-JUN-2003 (first entry)
XX
DE   cDNA encoding human PRO polypeptide #4.
XX
KW   Human; secreted and transmembrane protein; PRO polypeptide; cancer;
KW   Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic;
KW   neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2002192659-A1.
XX
PD   19-DEC-2002.
XX
PF   10-JUL-2001; 2001US-00902853.
XX
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0062125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062814P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063341P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0065186P.
PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0065693P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0066364P.
PR   24-NOV-1997;   97US-0066453P.
PR   24-NOV-1997;   97US-0066466P.
PR   24-NOV-1997;   97US-0066611P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   01-DEC-1998;   98WO-US025108.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.
PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.
PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.

PR   18-SEP-2000; 2000US-00665350.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI   Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI   Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI   Williams PM, Wood WI;
XX
DR   WPI; 2003-361832/34.
DR   P-PSDB; ABU71448.
XX
PT   New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or
PT   PRO1868, useful in molecular biology, chromosome and gene mapping, in
PT   generating antisense RNA and DNA, and in gene therapy.
XX
PS   Claim 2; Fig 8; 474pp; English.
XX
CC   The present invention relates to the isolation of novel human secreted
CC   and transmembrane proteins (PRO polypeptides), and the polynucleotide
CC   sequences encoding them. The polynucleotide sequences are useful in
CC   molecular biology, as hybridisation probes, in chromosome and gene
CC   mapping, in generating antisense RNA and DNA, and in gene therapy. The
CC   polynucleotide sequences may also be used in preparing PRO polypeptides
CC   by recombinant techniques, and in generating either transgenic animals or
CC   knock-out animals which, in turn, are useful in the development and
CC   screening of therapeutically useful reagents. The PRO polypeptides or
CC   their antibodies are useful in preparing a medicament for treating a
CC   condition responsive to the polypeptide or antibody, such as cancer,
CC   Alzheimer's disease or ischaemia, and in various diagnostic assays. The
CC   present sequence encodes a human PRO polypeptide of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%; Score 249; DB 7; Length 960;
Best Local Similarity   99.6%; Pred. No. 9.5e-59;
Matches 249; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 GTCCTGTTCCTGAGGCACAATCCTAACGCAAGTCTGACCAGTCTGATGTCTGCACCCCTGTN 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   450 GTCCTGTTCCTGAGGCACAATCCTAACGCAAGTCTGACCAGTCTGATGTCTGCACCCCTGTC 509

Qy   61 CCCACCCCTGACCCTCCATGGCCCTCCACGGCAGATCAGCTCTAGT 120
              |||||||||||||||||||||||||||||||||||||||||||||
Db   510 CCCACCCCTGACCCTCCATGGCCCTCCACGGCAGATCAGCTCTAGT 569

Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCGTGTTTCCATGGCCCA 180
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCGTGTTTCCATGGCCCA 629

Qy   181 GCATTCCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 240
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   630 GCATTCTCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy   241 CACCCCATCT 250
              ||||||||||
Db   690 CACCCCATCT 699

RESULT 10
ACA60013
ID   ACA60013 standard; cDNA; 960 BP.
XX
AC   ACA60013;
XX
DT   12-JUN-2003 (first entry)
XX
DE   Human cDNA for secreted/transmembrane protein PRO232.
XX
KW   Human; ss; gene; secreted protein; transmembrane protein; PRO;
KW   gene therapy; chromosome identification; chromosome marker.
XX
OS   Homo sapiens.
XX
PN   US2003003530-A1.
XX
PD   02-JAN-2003.
XX
PF   11-JUL-2001; 2001US-00904011.
XX
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0062125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062814P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0055186P.
PR   17-NOV-1997;   97US-0055846P.
PR   18-NOV-1997;   97US-0055693P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0066364P.
PR   24-NOV-1997;   97US-0066453P.
PR   24-NOV-1997;   97US-0066466P.
PR   24-NOV-1997;   97US-0066511P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   01-DEC-1998;   98WO-US025108.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.

PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 24-MAR-2000; 2000WO-US014042.
PR 22-MAY-2000; 2000WO-US015264.
PR 02-JUN-2000; 2000WO-US020710.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX
DR WPI; 2003-329602/31.
DR P-PSDB; ABU71894.
XX
PT New transmembrane polypeptides and nucleic acids encoding the
PT polypeptides, useful in gene therapy, in chromosome identification, as
PT chromosome markers, in generating probes and in tissue typing.
XX
PS Claim 2; Fig 8; 484pp; English.
XX
CC The invention relates to an isolated nucleic acid with at least 80%
CC nucleic acid sequence identity to a nucleotide sequence encoding one of
CC 61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a
CC PRO protein extracellular domain. Also included are a vector comprising
CC the PRO nucleic acid, a host cell comprising the vector, producing a PRO
CC polypeptide (by culturing the host cell for the expression of the PRO
CC polypeptide, and recovering the PRO polypeptide from the cell culture),
CC an isolated PRO polypeptide (having at least 80% sequence identity to: (
CC a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino
CC acid sequence encoded by a nucleic acid molecule deposited with an ATCC
CC number (detailed in the specification); or (c) an extracellular domain of
CC a PRO polypeptide or to a PRO polypeptide lacking its associated signal
CC peptide), a chimaeric molecule comprising a PRO polypeptide of fused to a
CC heterologous amino acid sequence, an anti-PRO antibody, detecting a
CC PRO245 or PRO1868 in a sample suspected of containing the polypeptide,
CC linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 and
CC modulating at least one biological activity of a cell expressing a PRO245
CC or PRO1868. Nucleic acids which encode PRO can be used to generate either
CC transgenic animals or knock-out animals which may be used in the
CC development and screening of therapeutically useful reagents. The nucleic
CC acids may also be used in gene therapy, in chromosome identification, as
CC chromosome markers, or in generating probes. The PRO polypeptides are
CC useful as molecular markers for protein electrophoresis, and the isolated
CC nucleic acids may be used for recombinantly expressing those markers. The
CC PRO polypeptides and nucleic acids may also be used in tissue typing.
CC Anti-PRO antibodies are useful in diagnostic assays for PRO, and in
CC affinity purification of PRO from recombinant cell culture or natural
CC sources. The present sequence encodes a PRO protein.
XX
SQ Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%; Score 249; DB 7; Length 960;
Best Local Similarity   99.6%; Pred. No. 9.5e-59;
Matches 249; Conservative   0; Mismatches   0; Indels   1; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 509

Qy   61 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCGGCCAGATCAGCTCTAGT 120
           ||||||||||||||||||||||||||||

Db   510 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCGGCCAGATCAGCTCTAGT 569

Qy   121 GACACAGATCGGCCTGCAGATGGCCCCTCTCTGCTGCTGTTCCATGGCCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||
Db   570 GACACAGATCGGCCTGCAGATGGCCCCTCTCTGCTGCTGTTCCATGGCCCA 629

Qy   181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAAGCCTTCCCTGCC 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy   241 CACCCCATCT 250
          ||||||||||
Db   690 CACCCCATCT 699

RESULT 11
ACD07413
ID   ACD07413 standard; cDNA; 960 BP.
XX
AC   ACD07413;
XX
DT   07-AUG-2003 (first entry)
XX
DE   Novel human secreted and transmembrane protein PRO232 cDNA.
XX
KW   Human; secreted and transmembrane protein; PRO; pharmaceutical;
KW   diagnostic; biosensor; bioreactor; Parkinson's disease;
KW   Alzheimer's disease; inflammation; nephritis; wound healing;
KW   nerve repair; collateral blood vessel formation; cancer;
KW   colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;
KW   cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;
KW   scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;
KW   infertility; gene therapy; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2002197671-A1.
XX
PD   26-DEC-2002.
XX
PF   17-JUL-2001; 2001US-00907824.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
PR   17-SEP-1997; 97US-0059121P.
PR   17-SEP-1997; 97US-0059122P.
PR   17-SEP-1997; 97US-0059184P.
PR   18-SEP-1997; 97US-0059263P.
PR   18-SEP-1997; 97US-0059266P.
PR   15-OCT-1997; 97US-0062125P.
PR   15-OCT-1997; 97US-0062285P.
PR   17-OCT-1997; 97US-0062287P.
PR   21-OCT-1997; 97US-0063486P.
PR   24-OCT-1997; 97US-0062814P.
PR   24-OCT-1997; 97US-0062816P.
PR   24-OCT-1997; 97US-0063045P.
PR   24-OCT-1997; 97US-0063120P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063128P.
PR   27-OCT-1997; 97US-0063327P.
PR   27-OCT-1997; 97US-0063329P.
PR   28-OCT-1997; 97US-0063541P.
PR   28-OCT-1997; 97US-0063542P.
PR   28-OCT-1997; 97US-0063544P.
PR   28-OCT-1997; 97US-0063549P.
PR   28-OCT-1997; 97US-0063550P.
PR   28-OCT-1997; 97US-0063564P.
PR   29-OCT-1997; 97US-0063435P.
PR   29-OCT-1997; 97US-0063704P.
PR   29-OCT-1997; 97US-0063732P.

PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 29-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065693P.
PR 21-NOV-1997; 97US-0066120P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 10-SEP-1998; 98US-018824.
PR 14-SEP-1998; 98US-019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 01-DEC-1998; 98WO-US025108.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-0665350.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX
DR WPI; 2003-370793/35.
DR P-PSDB; AB001777.
XX
PT New genes and secreted and transmembrane polypeptides (e.g. PRO245 or
PT PRO335), useful for treating or diagnosing e.g. Alzheimer's disease,
PT cancers, hemorrhage, rheumatoid arthritis, diabetes, cirrhosis, ischemia
PT or strokes.
XX
PS Claim 2; Fig 8; 482pp; English.
XX
CC The invention describes a new isolated nucleic acid molecule comprising
CC the full length coding sequence of the DNA deposited with the American
CC Type Culture Collection (e.g. ATCC Deposit No. 209258) ,or a sequence
CC with at least 80% identity to a DNA encoding a PRO polypeptide comprising
CC any of 61 sequences having 164-1119 amino acids fully defined in the
CC specification. The PRO polypeptides or polynuclectides are useful as

CC pharmaceuticals, diagnostics, biosensors or bioreactors. These are
CC particularly useful for detecting or treating e.g. Parkinson's disease,
CC Alzheimer's disease, inflammations, nephritis, wound healing, nerve
CC repair, collateral blood vessel formation, cancers (e.g. colorectal
CC cancer), haemorrhage (or reduce risk for haemorrhage), rheumatoid
CC arthritis, diabetes, cirrhosis of the liver, fibrosis of the lungs,
CC restenosis, dermal fibrotic conditions (e.g. keloids or scarring),
CC ischaemia, strokes, hypertension, heart attacks, atherosclerosis, or
CC infertility in mammals (e.g. humans, dogs, cats, cattle, horses, sheep,
CC pigs, goats, or rabbits) The PRO polypeptides are useful as targets for
CC therapeutic intervention in these diseases, and diagnostic determination
CC of the presence of these diseases. The PRO polypeptides are also useful
CC as molecular weight markers, or for chromosome identification. The PRO
CC genes are useful as hybridisation probes, or for screening libraries of
CC human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC therapy, particularly for replacing a defective gene. This sequence
CC encodes a novel human secreted and transmembrane PRO polypeptide
XX
SQ Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%; Score 249; DB 7; Length 960;
Best Local Similarity   99.6%; Pred. No. 9.5e-59;
Matches 249; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCAAGTCTGCACCCCTGTN 60
         |||||||||||||||||||||||||||||||||||||||||||||||||| |||||
Db 450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCAAGTCTGCACCCCTGTC 509

Qy   61 CCCCACCCTGACCCTCCCATGGCCTCCCAGGACTCCACCGGCAGATCAGCTCTAGT 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 510 CCCCACCCTGACCCTCCCATGGCCTCCCAGGACTCCACCGGCAGATCAGCTCTAGT 569

Qy 121 GACACAGATCCGCCTGCGAGTGGCCCCTCTCTGCTGCTGTTTCCATGGCCCA 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 570 GACACAGATCCGCCTGCGAGTGGCCCCTCTCTGCTGCTGTTTCCATGGCCCA 629

Qy 181 GCATTCTCACCCCTTAACCCTGTGCTCAGGCACCTTCCCCAGGAGCCTTCCCTGCC 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 630 GCATTCTCACCCCTTAACCCTGTGCTCAGGCACCTTCCCCAGGAGCCTTCCCTGCC 689

Qy 241 CACCCCATCT 250
         ||||||||||
Db 690 CACCCCATCT 699

RESULT 12
ABX71461
ID ABX71461 standard; cDNA; 960 BP.
XX
AC ABX71461;
XX
DT 10-MAR-2003 (first entry)
XX
DE Human cDNA encoding secreted/transmembrane protein PRO232.
XX
KW Human; PRO; secreted protein; transmembrane protein; enterocolitis;
KW gastrointestinal ulceration; skin disease; ss; gene;
KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
KW amyotrophic lateral sclerosis; inflammatory disease;
KW rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
KW atherosclerosis; cardiac injury; infertility; birth defect;
KW premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
KW diabetic complication; wound repair.
XX
OS Homo sapiens.
XX
PN US2002132240-A1.
XX
PD 19-SEP-2002.
XX
PF 18-JUL-2001; 2001US-00909320.
XX

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PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0061125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0064335P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0065186P.
PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0065693P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0066364P.
PR   24-NOV-1997;   97US-0066453P.
PR   24-NOV-1997;   97US-0066466P.
PR   24-NOV-1997;   97US-0066511P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   01-DEC-1998;   98WO-US025108.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   06-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.

PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.
PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.
PR   18-SEP-2000;   2000US-0665350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,  Botstein D,  Desnoyers L,  Eaton DL,  Ferrara N;
PI   Filvaroff E,  Fong S,  Gao W,  Gerber H,  Gerritsen ME,  Goddard A;
PI   Godowski PJ,  Grimaldi JC,  Gurney AL,  Hillan KJ,  Kljavin IJ;
PI   Mather JP,  Pan J,  Paoni NF,  Roy MA,  Stewart TA,  Tumas D;
PI   Williams PM,  Wood WI;
XX
DR   WPI; 2003-147434/14.
DR   P-PSDB; ABU54350.
XX
PT   New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
PT   treating inflammatory diseases, organ failure, atherosclerosis, cardiac
PT   injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
PT   disease.
XX
PS   Claim 2; Fig 8; 473pp; English.
XX
CC   The invention relates to an isolated PRO polypeptide having at least 80%
CC   amino acid sequence identity to: (a) any one of 61 fully defined amino
CC   acid sequences given in the specification (appearing as ABU54347-
CC   ABU54407); (b) an amino acid sequence encoded by the nucleotide sequence
CC   deposited under American Type Culture Collection (accession numbers
CC   listed in the specification); (c) any one of the PRO sequences which
CC   lacks its associated signal peptide; (d) an extracellular domain of the
CC   PRO polypeptide with its associated signal peptide; or (e) an
CC   extracellular domain of the PRO polypeptide which lacks its associated
CC   signal peptide. Also include are the nucleic acids encoding the PRO
CC   polypeptides, vectors, host cells and anti-PRO antibodies. The PRO
CC   polypeptides and nucleic acids are useful in diagnosing or treating
CC   enterocolitis, gastrointestinal ulceration, skin diseases associated with
CC   abnormal keratinocyte differentiation, e.g. psoriasis or epithelial
CC   cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's
CC   disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g.
CC   rheumatoid arthritis, asthma or multiple sclerosis, organ failure,
CC   atherosclerosis, cardiac injury, infertility, birth defects, premature
CC   aging, AIDS, cancer, diabetic complications, or mutations in general. The
CC   polypeptides are also useful for wound repair and associated therapies
CC   concerned with re-growth of tissue. The nucleotide sequences may be used
CC   as hybridisation probes in chromosome and gene mapping, or in generating
CC   antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
CC   polypeptides, in assays to identify other proteins or molecules involved
CC   in binding reaction, to generate transgenic animals or knockout animals,
CC   which in turn are useful in the development and screening of
CC   therapeutically useful reagents, for chromosome identification, and
CC   tissue typing. The PRO polypeptides and nucleic acid molecules are also
CC   useful in gene therapy, and as molecular weight markers for protein
CC   electrophoresis purposes. The anti-PRO antibodies may be used in
CC   diagnostic assays for PRO, or for the affinity purification of PRO from
CC   recombinant cell culture or natural sources. The present sequence encodes
CC   a PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             99.6%;  Score 249;  DB 7;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 9.5e-59;
Matches  249;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy        1  GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTTGCACCCCTGTN   60
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Db      450  GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC  509

Qy       61  CCCCACCCTGACCCTCCATGGCCCTTCCAGGACTCCCACCCCGGCAGATCAGCTCTAGT  120
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      510  CCCCACCCTGACCCTCCATGGCCCTTCCAGGACTCCCACCCCGGCAGATCAGCTCTAGT  569
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Qy   121 GACACAGAATCCGCTGCGACGATGGCCCCTCCAACCCTCTCGTGCTGTTTCCATGGCCCA 180
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   570 GACACAGAATCCGCTGCGACGATGGCCCCTCCAACCCTCTCGTGCTGTTTCCATGGCCCA 629

Qy   181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 240
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy   241 CACCCATCT 250
         |||||||||
Db   690 CACCCATCT 699
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RESULT 13
ACH06793
ID   ACH06793 standard; cDNA; 960 BP.
XX
AC   ACH06793;
XX
DT   08-OCT-2003 (first entry)
XX
DE   Human secreted/transmembrane polypeptide PRO232 cDNA.
XX
KW   Human; gene; ss; abnormal bleeding; gynaecological disease; asthma;
KW   hysterectomy; angiogenesis; coronary ischaemic condition; skin disease;
KW   gastrointestinal mucosa disorder; acute mucosal lesion; neuropathy; ALS;
KW   chronic mucosal lesion; abnormal keratinocyte differentiation; psoriasis;
KW   Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;
KW   uncontrolled cell growth; cancer; blood coagulation cascade; thrombosis;
KW   haemorrhage; endometrial bleeding; angiogenesis; wound healing; tumour;
KW   tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.
XX
OS   Homo sapiens.
XX
PN   US2003044839-A1.
XX
PD   06-MAR-2003.
XX
PF   10-JUL-2001; 2001US-00902903.
XX
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0062125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062814P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063564P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   29-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0051186P.
PR   17-NOV-1997;   97US-0055846P.
PR   18-NOV-1997;   97US-0055693P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0066364P.
PR   24-NOV-1997;   97US-0066453P.
PR   24-NOV-1997;   97US-0066466P.
PR   24-NOV-1997;   97US-0066511P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   25-NOV-1997;   97US-0066840P.
PR   12-DEC-1997;   97US-0069425P.
PR   04-JUN-1998;   98US-0080026P.
PR   10-SEP-1998;   98US-0099803P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98US-0102262P.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98US-0100858P.
PR   17-SEP-1998;   98WO-US019437.
PR   13-OCT-1998;   98US-0104080P.
PR   20-NOV-1998;   98US-0109304P.
PR   01-DEC-1998;   98WO-US025108.
PR   22-DEC-1998;   98US-0113296P.
PR   07-JUL-1999;   99US-0143048P.
PR   26-JUL-1999;   99US-0145698P.
PR   28-JUL-1999;   99US-0146222P.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99US-0021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.
PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.
PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000US-US023328.
PR   18-SEP-2000;   2000US-00665350.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Baton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI, 2003-492258/46.
DR   P-PSDB; ABO47365.
XX
PT   Novel secreted and transmembrane polypeptides and polynucleotides
PT   encoding them useful for treating abnormal bleeding involved in
PT   gynecological diseases, skin diseases and neurodegenerative diseases.

XX
PS   Claim 3; Fig 8; 478pp; English.
XX
CC   The invention relates to an isolated PRO polypeptide. PRO317 is useful in
CC   diagnosing or treating abnormal bleeding involved in gynecological
CC   diseases e.g. to avoid or lessen the need for hysterectomy. PRO317 may
CC   also be useful as an agent that affects angiogenesis and PRO317 is useful
CC   in anti-tumour indications or in treating coronary ischaemic conditions.
CC   PRO211 and PRO217 polypeptides are useful for treating disorders
CC   associated with the preservation and maintenance of gastrointestinal
CC   mucosa and the repair of acute and chronic mucosal lesions, skin diseases
CC   associated with abnormal keratinocyte differentiation (e.g. psoriasis).
CC   PRO187 polypeptide is useful for treating Parkinson's disease,
CC   Alzheimer's disease, amyotrophic lateral sclerosis (ALS), neuropathies
CC   and disease related to uncontrolled cell growth, e.g. cancer. PRO219
CC   polypeptide plays a regulatory role in the blood coagulation cascade.
CC   PRO246 polypeptides which serves as tumour specific antigens may be
CC   exploited as therapeutic targets for anti-tumour drugs. PRO269
CC   polypeptide is useful as an antithrombotic agent with reduced risk for
CC   haemorrhage as compared with heparin. PRO317 polypeptide is useful in
CC   treating endometrial bleeding angiogenesis. PRO287 polypeptides and
CC   portion have vascular therapeutic applications in wound healing and tissue repair.
CC   PRO234 polypeptides are useful for treating asthma, rheumatoid arthritis,
CC   psoriasis and multiple sclerosis. The polypeptide and its nucleic acid
CC   are useful for PRO typing. PRO antibodies are useful for
CC   immunohistochemical staining and/or assay of sample fluids. Anti-PRO
CC   antibodies are useful in diagnostic assays for PRO e.g. detecting its
CC   expression in specific cells, tissues or serum and for affinity
CC   purification of PRO from recombinant cell culture or natural sources. The
CC   present sequence represents cDNA encoding a human secreted/transmembrane
CC   PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%;   Score 249;   DB 7;   Length 960;
Best Local Similarity   99.6%;   Pred. No. 9.5e-59;
Matches 249;   Conservative   0;   Mismatches   0;   Indels   1;   Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCGCACCCCTGTN   60
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCGCACCCCTGTC 509

Qy   61 CCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCACCCGGCAGATCAGCTCAGT 120
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   510 CCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCACCCGGCAGATCAGCTCAGT 569

Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGCTGCGTGTTCCATGGCCCA 180
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGCTGCGTGTTCCATGGCCCA 629

Qy   181 GCATTCTCACCCTTAACCCTGTGCTCAGGCACCTTCCCCAGGAAGCCTTCCCTGCC 240
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy   241 CACCCCATCT 250
            ||||||||||
Db   690 CACCCCATCT 699

RESULT 14
ABX96030
ID   ABX96030 standard; cDNA; 960 BP.
XX
AC   ABX96030;
XX
DT   13-MAY-2003 (first entry)
XX
DE   Human secreted/transmembrane protein cDNA, #5.
XX
KW   Human; gene; ss; PRO; secreted; transmembrane; pharmaceutical;
KW   diagnostic; biosensor; bioreactor; therapeutic; hyperplasia;
KW   endometriosis; cancer; tumour; ischaemia; coronary arterial disease;
KW   polycystic kidney disease; renal failure; inflammatory response; asthma;
KW   rheumatoid arthritis; psoriasis; multiple sclerosis; gene therapy;
KW   cytostatic; gynecological; cardiant; nephrotropic; hepatotropic;
KW   antiinflammatory.
XX
OS   Homo sapiens.
XX
PN   US2002160374-A1.
XX
PD   31-OCT-2002.
XX
PF   12-JUL-2001; 2001US-00905291.
XX

PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0062125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
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PR   18-NOV-1997;   97US-0065693P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0066364P.
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PR   24-NOV-1997;   97US-0066772P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   01-DEC-1998;   98WO-US025108.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.

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PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.
PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.
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PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.
PR   18-SEP-2000;   2000US-00665350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,    Botstein D,    Desnoyers L,    Eaton DL,    Ferrara N;
PI   Filvaroff E,    Fong S,    Gao W,    Gerber H,    Gerritsen ME,    Goddard A;
PI   Godowski PJ,    Grimaldi JC,    Gurney AL,    Hillan KJ,    Kljavin IJ;
PI   Mather JP,    Pan J,    Paoni NF,    Roy MA,    Stewart TA,    Tumas D;
PI   Williams PM,    Wood WI;
XX
DR   WPI; 2003-288105/28.
DR   P-PSDB; ABU64502.
XX
PT   New secreted and transmembrane PRO polypeptides (e.g. PRO533 or PRO245)
PT   and genes encoding them, useful for detecting or treating e.g.
PT   hyperplasia, endometriosis, cancers, ischemia, coronary arterial disease
PT   or inflammations.
XX
PS   Claim 2; Fig 8; 477pp; English.
XX
CC   The invention discloses isolated PRO secreted/transmembrane polypeptides
CC   and the nucleic acid encoding them. The polypeptides can be used to raise
CC   antibodies that specifically bind to the PRO polypeptide, for linking a
CC   bioactive molecule to a cell expressing a PRO protein and for modulating
CC   at least one biological activity of a cell. The PRO polypeptides or
CC   polynucleotides are also useful as pharmaceuticals, diagnostics,
CC   biosensors or bioreactors, for detecting or treating e.g. hyperplasia,
CC   endometriosis, cancers (e.g. those involving solid tumours), ischaemia,
CC   coronary arterial disease, polycystic kidney disease, chronic or acute
CC   renal failure, or inflammatory responses (e.g. asthma, rheumatoid
CC   arthritis, psoriasis or multiple sclerosis) in mammals. The PRO genes may
CC   also be used in gene therapy, particularly for replacing a defective
CC   gene. The sequences presented in ABX96017-ABX96378 are the genes
CC   encoding, the primers amplifying and the probes detecting the PRO
CC   polynucleotides of the invention
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SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

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Db      630 GCATTCTCACCCTTAACCCTGTGCTCAGGCACCTTCTCCCCCAGGAAGCCTTCCTGCC 689

Qy      241 CACCCCATCT 250
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Db      690 CACCCCATCT 699

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DT   29-MAY-2003  (first entry)
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DE   cDNA encoding human secreted protein PRO232.
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KW   Human; gene therapy; mucosal lesion; ulcer; enterocolitis; skin disease;
KW   psoriasis; cancer; lung cancer; colon cancer; nerve cell disease;
KW   Alzheimer's disease; Parkinson's disease; Usher syndrome; angiogenesis;
KW   atrophia areata; inflammatory disease; asthma; rheumatoid arthritis;
KW   ischemia; ss; gene.
XX
OS   Homo sapiens.
XX
PN   US2003023054-A1.
XX
PD   30-JAN-2003.
XX
PF   16-JUL-2001;   2001US-00906742.
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PR   17-SEP-1997;   97US-0059113P.
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PR   24-OCT-1997;   97US-0062816P.
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PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0055693P.
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PR   21-NOV-1997;   97US-0066120P.
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PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   02-MAR-2000;   2000WO-US007377.
PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.
PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.
PR   18-SEP-2000;   2000US-00665350.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-331485/31.
DR   P-PSDB; ABU67348.
XX
PT   Sixty one isolated nucleic acids encoding a PRO polypeptide, e.g. PRO245
PT   or PRO1868, useful in chromosome and gene mapping, in generating
PT   antisense RNA and DNA, and in treating cancer and Alzheimer's disease.
XX
PS   Example 4; Fig 8; 481pp; English.
XX
CC   The invention relates to sixty one nucleic acids encoding PRO
CC   polypeptides (secreted and transmembrane). The polynucleotide is useful
CC   in molecular biology, including uses as hybridisation probes, in
CC   chromosome and gene mapping, in generating antisense RNA and DNA, and in
CC   gene therapy. The polynucleotide may also be used in preparing PRO
CC   polypeptides by recombinant techniques, and in generating either

CC   transgenic animals or knock-out animals which, in turn, are useful in the
CC   development and screening of therapeutically useful reagents. The PRO
CC   polypeptide or the antibody is used in preparing a medicament for
CC   treating a condition responsive to the polypeptide or antibody, such as
CC   mucosal lesions e.g. ulcers and enterocolitis, skin disease e.g.
CC   psoriasis, cancer e.g. lung cancer and colon cancer, nerve cell disease
CC   e.g. Alzheimer's disease and Parkinson's disease, Usher syndrome,
CC   atrophia areata, angiogenesis, inflammatory disease e.g asthma and
CC   rheumatoid arthritis, ischaemia, and in various diagnostic assays. The
CC   present sequence represents an cDNA which encodes a PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   99.6%; Score 249; DB 7; Length 960;
Best Local Similarity 99.6%; Pred. No. 9.5e-59;
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                    GenCore version 5.1.6
        Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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and is derived by analysis of the total score distribution.
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SUMMARIES

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	2	249	99.6	960	4	US-09-905-125A-17	Sequence 17, Appl
	3	249	99.6	960	4	US-09-902-775A-17	Sequence 17, Appli
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	5	193	77.2	998	3	US-09-251-835-1	Sequence 1, Appli
	6	193	77.2	998	3	US-09-318-503-1	Sequence 1, Appli
	7	193	77.2	998	4	US-09-038-261A-1	Sequence 1, Appli
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	9	47.2	18.9	998	3	US-08-232-463-14	Sequence 1, Appli
c	10	39.2	15.7	289	3	US-09-007-005-17	Sequence 17, Appl
c	11	39.2	15.7	289	3	US-09-244-796-17	Sequence 17, Appl
c	12	37.8	15.1	1926	4	US-09-249-585A-2	Sequence 2, Appli
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c	21	37.8	15.1	10596	1	US-07-885-971-15	Sequence 15, Appl
c	22	37.8	15.1	10596	1	US-08-087-783A-15	Sequence 15, Appl
c	23	37.8	15.1	10596	2	US-08-194-088B-15	Sequence 15, Appl
c	24	37.8	15.1	10596	2	US-08-194-087-15	Sequence 15, Appl
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c	26	37.8	15.1	16080	3	US-09-724-566A-48	Sequence 48, Appl
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c	33	32.4	13.0	318	3	US-09-165-264-12	Sequence 12, Appl
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	38	32.4	13.0	72604	4	US-09-657-474-7	Sequence 7, Appli
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	40	32.2	12.9	152331	1	US-09-128-155-16	Sequence 16, Appl
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c	44	31.6	12.6	1166	4	US-09-072-596-323	Sequence 323, App
	45	31.6	12.6	1166	4	US-09-072-967-328	Sequence 328, App

ALIGNMENTS

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RESULT 1
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; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
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; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
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;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/905,125A
;   CURRENT FILING DATE: 2001-07-12
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
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;   PRIOR FILING DATE: 1999-07-26
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;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-907-794A-17

Query Match             99.6%;  Score 249;  DB 4;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 4.3e-63;
Matches  249;  Conservative   0;  Mismatches   0;  Indels   1;  Gaps   0;

Qy          1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGCTGACCATGTATGTCTGCACCCCTGTN 60
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGCTGACCATGTATGTCTGCACCCCTGTC 509

Qy         61 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGAGACTCCCACCCGGCAGATCAGCTCTAGT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        510 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGAGACTCCCACCCGGCAGATCAGCTCTAGT 569

Qy        121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGTTTCCATGGCCCA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGTTTCCATGGCCCA 629

Qy        181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy        241 CACCCCATCT 250
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Db        690 CACCCCATCT 699


RESULT 2
US-09-905-125A-17
; Sequence 17, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
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Qy    241  CACCCCATCT  250
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Db    690  CACCCCATCT  699
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RESULT 3
US-09-902-775A-17
; Sequence 17, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
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; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;    LENGTH: 960
;    TYPE: DNA
;    ORGANISM: Homo sapiens
US-09-902-775A-17

Query Match           99.6%;  Score 249;  DB 4;  Length 960;
Best Local Similarity 99.6%;  Pred. No. 4.3e-63;
Matches  249;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy    1   GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCGCACCCCTGTN   60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   450  GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC  509

Qy    61  CCCCACCCTGACCCTCCCATGGCCCTTCCAGGACTCCACCCGGCAGATCAGCTCTAGT   120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   510  CCCCACCCTGACCCTCCCATGGCCCTTCCAGGACTCCACCCGGCAGATCAGCTCTAGT   569

Qy   121  GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGCTGTTTCCATGGCCCA   180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   570  GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGCTGTTTCCATGGCCCA   629

Qy   181  GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCCCCAGGAAGCCTTCCCTGCC   240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   630  GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCCCCAGGAAGCCTTCCCTGCC   689

Qy   241  CACCCCATCT  250
          |||||||||
Db   690  CACCCCATCT  699
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RESULT 4
US-09-203-939-1
; Sequence 1, Application US/09203939
; Patent No. 6258939
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54USI1
; CURRENT APPLICATION NUMBER: US/09/203,939
; CURRENT FILING DATE: 2000-12-02
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 998
;   TYPE: DNA
;   ORGANISM: HUMAN PSCA (hPSCA)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (543)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (580)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (584)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (604)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
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Left column:

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;      LOCATION: (608)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (615)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (636)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (640)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (646)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (697)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (926)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
US-09-203-939-1

Query Match             77.2%;  Score 193; DB 3;  Length 998;
Best Local Similarity   88.9%;  Pred. No. 7.2e-47;
Matches   225;  Conservative    0;  Mismatches   25;  Indels    3;  Gaps    2;

Qy      1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN   60
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Db    479 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTTTGACCATGTATGTTTGCACCCCTTTT  538

Qy     61 CCCC--ACCCTGACCCTCCCAT-GGCCCTCTTCCAGGACTCCCACCCGGCAGATCAGCTCT  117
            ||||   ||||||||||||  ||| || || ||||||||  |||||| ||||| |||||
Db    539 CCCCNAACCCTGACCTTCCCATGGGCCTTTTCCAGGATTCCNACCNGGCAGATCCAGTTTT  598

Qy    118 AGTGACACAGATCCGCCTGCAGATGCCCCTCCAACCCTCTGCTGTTTCCATGGC  177
            ||||| || ||||||  | |||||  |||  |||||||| | |||| ||||||
Db    599 AGTGANACANATCCGCNTGCAGATGCCCCNTGNTGTTGNTGTTTCCATGGC  658

Qy    178 CCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCTCCCCAGGAAGCCTTCCCT  237
            ||||||||| ||||||||||||||||| |||||||||| ||| ||||||||||||||||
Db    659 CCAGCATTTTCCACCCTTAACCCTGTGTTCAGGCACTTNTTCCCCCAGGAAGCCTTCCCT  718

Qy    238 GCCCACCCCATCT  250
            ||||||||||  |
Db    719 GCCCACCCCATTT  731

RESULT 5
US-09-251-835-1
;  Sequence 1, Application US/0925183SA
;  Patent No. 6261789
;  GENERAL INFORMATION:
;      APPLICANT:  Reiter, Robert E.
;      APPLICANT:  Witte, Owen N.
;      TITLE OF INVENTION:  PSCA: PROSTATE STEM CELL ANTIGEN
;      FILE REFERENCE:  30435.54USI2
;      CURRENT APPLICATION NUMBER: US/09/251,835A
;      CURRENT FILING DATE:  1999-02-17
;      PRIOR APPLICATION NUMBER:  08/814,279
;      PRIOR FILING DATE:  1997-03-10
;      PRIOR APPLICATION NUMBER:  60/071,141
;      PRIOR FILING DATE:  1998-01-12
;      PRIOR APPLICATION NUMBER:  60/074,675
;      PRIOR FILING DATE:  1998-02-13
;      PRIOR APPLICATION NUMBER:  09/038,261
;      PRIOR FILING DATE:  1998-03-10
;      PRIOR APPLICATION NUMBER:  09/203,939
;      PRIOR FILING DATE:  1998-12-02
;      NUMBER OF SEQ ID NOS: 16
;      SOFTWARE:  PatentIn Ver. 2.0
;  SEQ ID NO 1
;      LENGTH: 998
;      TYPE: DNA
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;      FEATURE:
;      NAME/KEY: misc_feature
;      LOCATION: (543)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (580)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (584)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (604)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (608)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (615)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (636)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (640)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (646)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (697)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (926)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (636)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (640)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (646)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (697)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;      NAME/KEY: misc_feature
;      LOCATION: (926)
;      OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
US-09-251-835-1

Query Match             77.2%;  Score 193; DB 3;  Length 998;
Best Local Similarity   88.9%;  Pred. No. 7.2e-47;
Matches   225;  Conservative    0;  Mismatches   25;  Indels    3;  Gaps    2;

Qy      1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN   60
            ||||||||||||||||||||||||||||| |||||||||||| |||||||| |||||
Db    479 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTTTGACCATGTATGTTTGCACCCCTTTT  538

Qy     61 CCCC--ACCCTGACCCTCCCAT-GGCCCTCTTCCAGGACTCCCACCCGGCAGATCAGCTCT  117
            ||||   ||||||||||||  ||| || || ||||||||  |||||| ||||| |||||
Db    539 CCCCNAACCCTGACCTTCCCATGGGCCTTTTCCAGGATTCCNACCNGGCAGATCCAGTTTT  598

Qy    118 AGTGACACAGATCCGCCTGCAGATGCCCCTCCAACCCTCTGCTGTTTCCATGGC  177
            ||||| || ||||||  | |||||  |||  |||||||| | |||| ||||||
Db    599 AGTGANACANATCCGCNTGCAGATGCCCCNTGNTGTTGNTGTTTCCATGGC  658

Qy    178 CCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCTCCCCAGGAAGCCTTCCCT  237
            ||||||||| ||||||||||||||||| |||||||||| ||| ||||||||||||||||
Db    659 CCAGCATTTTCCACCCTTAACCCTGTGTTCAGGCACTTNTTCCCCCAGGAAGCCTTCCCT  718

Qy    238 GCCCACCCCATCT  250
            ||||||||||  |
Db    719 GCCCACCCCATTT  731

RESULT 6
US-09-318-503-1
;  Sequence 1, Application US/09318503A
;  Patent No. 6261791
;  GENERAL INFORMATION:
;      APPLICANT:  Reiter, Robert E.
;      APPLICANT:  Witte, Owen N.
;      TITLE OF INVENTION:  PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
;      FILE REFERENCE:  30435.54USI3
;      CURRENT APPLICATION NUMBER: US/09/318,503A
;      CURRENT FILING DATE:  1999-05-25
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;   EARLIER APPLICATION NUMBER: 08/814,279
;   EARLIER FILING DATE: 1997-03-10
;   EARLIER APPLICATION NUMBER: 60/071,141
;   EARLIER FILING DATE: 1998-01-12
;   EARLIER APPLICATION NUMBER: 60/074,675
;   EARLIER FILING DATE: 1998-02-13
;   EARLIER APPLICATION NUMBER: 09/038,261
;   EARLIER FILING DATE: 1998-03-10
;   EARLIER APPLICATION NUMBER: 09/203,939
;   EARLIER FILING DATE: 1998-12-02
;   EARLIER APPLICATION NUMBER: 09/251,835
;   EARLIER FILING DATE: 1999-02-17
;   NUMBER OF SEQ ID NOS: 18
;   SOFTWARE: PatentIn Ver. 2.0
;
; SEQ ID NO 1
;   LENGTH: 998
;   TYPE: DNA
;   ORGANISM: HUMAN PSCA (hPSCA)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (543)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (580)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (584)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (604)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (608)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (615)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (636)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (640)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (646)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (697)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (926)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
US-09-318-503-1

Query Match           77.2%;  Score 193;  DB 3;  Length 998;
Best Local Similarity 88.9%;  Pred. No. 7.2e-47;
Matches   225;  Conservative  0;  Mismatches  25;  Indels  3;  Gaps  2;

Qy    1  GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGACACCCTGTN  60
         ||||||||||||||||||||||||||||||||||||||| ||||||||||| |||||||||
Db  479  GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTTGACCATGTATGTTTGCACCCCTTTT  538

Qy   61  CCCC--ACCCTGACCCTCCCAT-GGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCT  117
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Db  539  ||||    ||||||||||||||| |||||  ||||||||||  ||||||||||||| |
         CCCCNAACCCTGACCTTCCCATGGCCGTTTCCAGGATTCCNACCCTCTGCTGTTTCCATGGC  598

Qy  118  AGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGTTTCCATGGC  177
         |||| ||||| |||||||||||||| |||||||||||||||| |||||||||||||
Db  599  AGTGANACANATCCCGCNTGCAGATGGCCCCTCCAACCNTTTNTGTGNTGTTTCCATGGC  658

Qy  178  CCAGCATTCTCCACCCTAACCCTGTGTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCT  237
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  659  CCAGCATTTTCCACCCTTAACCCTGTTGTTCAGGCACTNTTCCCCCAGGAAGCCTTCCCT  718

Qy  238  GCCCACCCCATCT  250
         ||||||||||||
Db  719  GCCCACCCCATTT  731
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RESULT 7
US-09-038-261A-1
;  Sequence 1, Application US/09038261A
;  Patent No. 6267960
;  GENERAL INFORMATION:
;  APPLICANT: Reiter, Robert E.
;  APPLICANT: Witte, Owen N.
;  TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
;  FILE REFERENCE: 30435.54USU1
;  CURRENT APPLICATION NUMBER: US/09/038,261A
;  CURRENT FILING DATE: 1998-03-10
;  PRIOR APPLICATION NUMBER: 08/814,279
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: 60/071,141
;  PRIOR FILING DATE: 1998-01-12
;  PRIOR APPLICATION NUMBER: 60/074,675
;  PRIOR FILING DATE: 1998-02-13
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
;
; SEQ ID NO 1
;  LENGTH: 998
;  TYPE: DNA
;  ORGANISM: HUMAN PSCA (hPSCA)
;  FEATURE:
;  NAME/KEY: misc_feature
;  LOCATION: (543)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (580)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (584)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (604)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (608)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (615)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (636)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (640)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (646)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (697)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (926)
;  OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
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US-09-038-261A-1

Query Match   77.2%;   Score 193;   DB 3;   Length 998;
Best Local Similarity 88.9%; Pred. No. 7.2e-47;
Matches 225; Conservative   0; Mismatches 25; Indels   3; Gaps   2;

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Qy    1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
        ||||||||||||||||||||||||||||||||||||||||||||| |||||||||||
Db  479 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTTTGCACCCCTTTT 538

Qy   61 CCCC--ACCCTGACCCTCCCAT-GGCCCTCTTCCAGGACTCCACCCGGCAGATCAGCTCT 117
        ||||  ||||||||| ||||| |||| |||| ||||||| ||| ||||||||||
Db  539 CCCNAACCCTGACCTTCCCATGGGCCTTTTCCAGGATTCCNACCNGGCAGATCAGTTTT 598

Qy  118 AGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGCTGCTGTTTCCATGGC 177
        |||||| || |||||| ||||||||||||||||||||| || ||| ||||||||||||
Db  599 AGTGANACANATCCGCNTGCAGATGGCCCCTCCAACCNTTTNTGTTGNTGTTTCCATGGC 658

Qy  178 CCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTCTTCCCCCAGGAGCCTTCCCT 237
        |||||||| |||||||||||||||||| |||||||| | |||||||||||||||||||
Db  659 CCAGCATTTTCCACCCTTAACCCTGTGTTCAGGCACTNTTCCCCCAGGAGCCTTCCCT 718

Qy  238 GCCCACCCCATCT 250
        |||||||||||
Db  719 GCCCACCCCATTT 731
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RESULT 8
US-09-564-329A-1
; Sequence 1, Application US/09564329A
; Patent No. 6541212
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/564,329A
; CURRENT FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/251,835
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/308,503
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 998
; TYPE: DNA
; ORGANISM: HUMAN PSCA (hPSCA)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (543)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (580)

; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (584)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (604)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (608)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (615)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (636)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (640)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (646)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (697)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (926)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)

US-09-564-329A-1

Query Match   77.2%;   Score 193;   DB 4;   Length 998;
Best Local Similarity 88.9%; Pred. No. 7.2e-47;
Matches 225; Conservative   0; Mismatches 25; Indels   3; Gaps   2;

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Qy    1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
        ||||||||||||||||||||||||||||||||||||||||||||| |||||||||||
Db  479 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTTTGCACCCCTTTT 538

Qy   61 CCCC--ACCCTGACCCTCCCAT-GGCCCTCTTCCAGGACTCCACCCGGCAGATCAGCTCT 117
        ||||  ||||||||| ||||| |||| |||| ||||||| ||| ||||||||||
Db  539 CCCNAACCCTGACCTTCCCATGGGCCTTTTCCAGGATTCCNACCNGGCAGATCAGTTTT 598

Qy  118 AGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGCTGCTGTTTCCATGGC 177
        |||||| || |||||| ||||||||||||||||||||| || ||| ||||||||||||
Db  599 AGTGANACANATCCGCNTGCAGATGGCCCCTCCAACCNTTTNTGTTGNTGTTTCCATGGC 658

Qy  178 CCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTCTTCCCCCAGGAGCCTTCCCT 237
        |||||||| |||||||||||||||||| |||||||| | |||||||||||||||||||
Db  659 CCAGCATTTTCCACCCTTAACCCTGTGTTCAGGCACTNTTCCCCCAGGAGCCTTCCCT 718

Qy  238 GCCCACCCCATCT 250
        |||||||||||
Db  719 GCCCACCCCATTT 731
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RESULT 9
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:

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;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/08/232,463
;     FILING DATE:
;     CLASSIFICATION: 435
;     PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: US/07/935,313
;     FILING DATE:
;     APPLICATION NUMBER: EP 91 114 300.6
;     FILING DATE: 26-AUG-1991
;     ATTORNEY/AGENT INFORMATION:
;     NAME: BENT, Stephen A.
;     REGISTRATION NUMBER: 29,768
;     REFERENCE/DOCKET NUMBER: 30472/114 IMMU
;     TELECOMMUNICATION INFORMATION:
;     TELEPHONE: (703)836-9300
;     TELEFAX: (703)683-4109
;     TELEX: 899149
;     INFORMATION FOR SEQ ID NO: 14:
;     SEQUENCE CHARACTERISTICS:
;     LENGTH: 7218 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;     IMMEDIATE SOURCE:
;     CLONE: pTZgpt-FIs
US-08-232-463-14

Query Match       18.9%;  Score 47.2;  DB 1;  Length 7218;
Best Local Similarity  0.4%;  Pred. No. 0.00022;
Matches    1;  Conservative 162;  Mismatches  86;  Indels  0;  Gaps  0;

Qy    2 TCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCAGTATGTCTGCACCCCTGTNC   61
          |:::  ::::: : ::: :  :::  : :::::::::::::::::::: :::: :
Db 1066 TYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY        1125

Qy   62 CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTG  121
          :::::::::::  ::::::::  : ::::::::  :::: ::: : ::::: :
Db 1126 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY          1185

Qy  122 ACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGCTGTTTCCATGGCCCAG  181
          : :::::::::  ::: ::::::::::::::::::::::::::::::::::::
Db 1186 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY          1245

Qy  182 CATTCTCCACCCTTAACCCTGTGCTCAGGCAGCCACCTCTTCCCCCAGGAAGCCTTCCCTGCCC  241
          :::::: :::::  :::: : : ::::::::::::  ::::::::: :::
Db 1246 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY          1305

Qy  242 ACCCCATCT                                                     250
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Db 1306 YYYYYYYY                                                      1314

RESULT 10
US-09-007-005-17/c
;  Sequence 17, Application US/09007005B
;  Patent No. 6258558
;  GENERAL INFORMATION:
;  APPLICANT: Szostak, Jack W.
;  APPLICANT: Roberts, Richard W.
;  APPLICANT: Liu, Rihe
;  TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
;  TITLE OF INVENTION: FUSIONS
;  FILE REFERENCE: 00786/350003
;  CURRENT APPLICATION NUMBER: US/09/007,005B
;  CURRENT FILING DATE: 1998-01-14
;  EARLIER APPLICATION NUMBER: 60/035,963
;  EARLIER FILING DATE: 1997-01-27
;  EARLIER APPLICATION NUMBER: 60/064,491
;  EARLIER FILING DATE: 1997-11-06
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;  NUMBER OF SEQ ID NOS: 33
;  SOFTWARE: FastSEQ for Windows Version 4.0
;  SEQ ID NO 17
;  LENGTH: 289
;  TYPE: RNA
;  ORGANISM: Artificial Sequence
;  FEATURE:
;  OTHER INFORMATION: Translation template
;  FEATURE:
;  NAME/KEY: misc_feature
;  LOCATION: (1)..(289)
;  OTHER INFORMATION: n = A,T,C or G
US-09-007-005-17

Query Match       15.7%;  Score 39.2;  DB 3;  Length 289;
Best Local Similarity  5.3%;  Pred. No. 0.017;
Matches   11;  Conservative  94;  Mismatches 102;  Indels  0;  Gaps  0;

Qy   18 ACATCCTAACGCAAGTCTGACCATGTAGTCTGCACCCCTGTNCCCACCCTGACCCTCC    77
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Db  260 AVGYCYGYCYAYAYGYAYGYTYTYAYCYGYCYAYGYCYTYGYSYNYNYSYNYNYSYNYNY  201

Qy   78 CATGGGCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGC  137
          :  ::::|: ::::  :: : : ::::::::::  : : :: :
Db  200 SYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNY  141

Qy  138 AGATGGCCCCTCCAACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAA  197
          :   :  :: ::|: :: ::::  :  ::: :::
Db  140 SYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNY   81

Qy  198 CCCTGGTCCAGGCACCTCTTCCCCCA                                   224
          :::  :::|: :  :::  : :::::|:|
Db   80 SYNYNYSYNYNYSYNYNYSYNYNYCYA                                   54

RESULT 11
US-09-244-796-17/c
;  Sequence 17, Application US/09244796
;  Patent No. 6281344
;  GENERAL INFORMATION:
;  APPLICANT: Szostak, Jack W.
;  APPLICANT: Roberts, Richard W.
;  APPLICANT: Liu, Rihe
;  TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
;  TITLE OF INVENTION: FUSIONS
;  FILE REFERENCE: 00786/350007
;  CURRENT APPLICATION NUMBER: US/09/244,796
;  CURRENT FILING DATE: 1999-02-05
;  EARLIER APPLICATION NUMBER: 60/035,963
;  EARLIER FILING DATE: 1997-01-27
;  EARLIER APPLICATION NUMBER: 60/064,491
;  EARLIER FILING DATE: 1997-11-06
;  EARLIER APPLICATION NUMBER: 09/007,005
;  EARLIER FILING DATE: 1998-01-14
;  NUMBER OF SEQ ID NOS: 33
;  SOFTWARE: FastSEQ for Windows Version 4.0
;  SEQ ID NO 17
;  LENGTH: 289
;  TYPE: RNA
;  ORGANISM: Artificial Sequence
;  FEATURE:
;  OTHER INFORMATION: Translation template
;  FEATURE:
;  NAME/KEY: misc_feature
;  LOCATION: (1)..(289)
;  OTHER INFORMATION: n = A,T,C or G
US-09-244-796-17

Query Match       15.7%;  Score 39.2;  DB 3;  Length 289;
Best Local Similarity  5.3%;  Pred. No. 0.017;
Matches   11;  Conservative  94;  Mismatches 102;  Indels  0;  Gaps  0;

Qy   18 ACATCCTAACGCAAGTCTGACCATGTAGTCTGCACCCCTGTNCCCACCCTGACCCTCC    77
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Db   260 AYGYCYGYCYAYAYGYAYGYTYTYAYCYGYCYAYGYCYTYGYSYNYNYSYNYNYSYNYNY 201
Qy   78 CATGGCCCTCTCCAGGACTCCACCCGGCCAGAGATCAGCTCTAGTGACACAGATCCGCCTGC 137
Db   200 SYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNY 141
Qy   138 AGATGGCCCCTCCAACCCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAA 197
Db   140 SYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNYSYNYNY 81
Qy   198 CCCTGTGCTCAGGCACCTCTTCCCCCA 224
Db   80 SYNYNYSYNYNYSYNYNYSYNYNYCYA 54

RESULT 12
US-09-249-585A-2/c
; Sequence 2, Application US/09249585A
; Patent No. 6417002
; GENERAL INFORMATION:
; APPLICANT: Horlick, Robert
; TITLE OF INVENTION: METHOD FOR MAINTENANCE AND SELECTION OF EPISOMES
; FILE REFERENCE: 0867/0D905
; CURRENT APPLICATION NUMBER: US/09/249,585A
; CURRENT FILING DATE: 1999-02-11
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 1926
; TYPE: DNA
; ORGANISM: Epstein Barr Virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1926)
; OTHER INFORMATION: coding strand of EBNA-1 DNA
US-09-249-585A-2

Query Match   15.1%; Score 37.8; DB 4; Length 1926;
Best Local Similarity 49.0%; Pred. No. 0.077;
Matches 99; Conservative 0; Mismatches 103; Indels 0; Gaps 0;

Qy   49 TGCACCCGTGNCCCACCCTGACCCTCCCATGGCCCTCCCAGGACTCCACCCGGCCAG 108
Db 1092 TCCCCCCCTGGCTCTTTCACGTCCTCTACCCGGGGCCGGCCTCCACTACCTCCTGACCCCG 1033
Qy 109 ATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGCTGT 168
Db 1032 GCCTCCACTACCTCCTCGACCCCGGGCCTCCACTGCCTCTCTGCGCCCTCCGCCCTCCACCTCC 973
Qy 169 TTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAA 228
Db 972 TGCTCCTGCCCCTCCTGCCCTCCTGCCCTCCTGCCCCCTCCGCCCCTCCTGC 913
Qy 229 GCCTTCCCTGCCCACCCCATCT 250
Db 912 TCCTGCCCCTCCTGCCCCTCCT 891

RESULT 13
US-09-410-399-3/c
; Sequence 3, Application US/09410399
; Patent No. 6482587
; GENERAL INFORMATION:
; APPLICANT: Robertson, Erle S.
; APPLICANT: Cotter, Murray A.
; TITLE OF INVENTION: Methods to Inhibit or Enhance the Binding of Viral DNA
; TITLE OF INVENTION: to Genomic Host DNA
; FILE REFERENCE: UM-03778
; CURRENT APPLICATION NUMBER: US/09/410,399
; CURRENT FILING DATE: 1999-10-01
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3
; LENGTH: 1926
; TYPE: DNA
; ORGANISM: Epstein-Barr virus
US-09-410-399-3

Query Match   15.1%; Score 37.8; DB 4; Length 1926;
Best Local Similarity 49.0%; Pred. No. 0.077;
Matches 99; Conservative 0; Mismatches 103; Indels 0; Gaps 0;

Qy   49 TGCACCCGTGNCCCACCCTGACCCTCCCATGGCCCTCCCAGGACTCCACCCGGCCAG 108
Db 1092 TCCCCCCCTGGCTCTTTCACGTCCTCTACCCGGGGCCGGCCTCCACTACCTCCTGACCCCG 1033
Qy 109 ATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGCTGCTGT 168
Db 1032 GCCTCCACTACCTCCTCGACCCCGGGCCTCCACTGCCTCTCTGCGCCCTCCGCCCTCCACCTCC 973
Qy 169 TTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAA 228
Db 972 TGCTCCTGCCCCTCCTGCCCTCCTGCCCTCCTGCCCCCTCCGCCCCTCCTGC 913
Qy 229 GCCTTCCCTGCCCACCCCATCT 250
Db 912 TCCTGCCCCTCCTGCCCCTCCT 891

RESULT 14
US-09-050-863-2/c
; Sequence 2, Application US/09050863
; Patent No. 6114111
; GENERAL INFORMATION:
; APPLICANT: Lao, Ying
; APPLICANT: Hiang, Betty
; APPLICANT: Payan, Don
; TITLE OF INVENTION: Mammalian Protein Interaction Cloning
; TITLE OF INVENTION: System
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/050,863
; FILING DATE: 30-MAR-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Silva, Robin M.
; REGISTRATION NUMBER: 38,304
; REFERENCE/DOCKET NUMBER: A-65638/DJB/RMS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 949-8711
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2580 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA
US-09-050-863-2

Query Match   15.1%; Score 37.8; DB 3; Length 2580;
Best Local Similarity 49.0%; Pred. No. 0.084;
Matches 99; Conservative 0; Mismatches 103; Indels 0; Gaps 0;

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Db   1415  GCCTCCACTACCTCCTCGACCCCGGCCTCCACTGCCTCCTCGACCCCGGCCTCCACCTCC  1356

Qy    169  TTCCATGGCCCAGCATTCCCACCCTTAACCCTCTGCTGCTCAGGCACCTCTTCCCCCAGGAA  228
           ||||||||||||||||||||  |  ||   |||||||||||||| |||||||
Db   1355  TGCTCCTGCCCCTGCCCTGCTGCTCCTGCTGCTGCCCCTGCCCCCTCTGC  1296

Qy    229  GCCTCCCTGCCCACCCATCT  250
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Db   1295  TCCTGCCCCTCCTGCCCCTCCT  1274
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Search completed: September 18, 2004, 19:23:33
Job time : 30.2051 secs

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Qy     49  TGCACCCCTGTNCCCACCCTGACCCTCCATGCCCTCTCCAGGACTCCACCGGCAG  108
           |||||||||| ||||||| ||| |  ||    ||  ||   |
Db   1475  TCCCCCCCTGGCTCTTTCACGTCCTCTACCCCGGCGGCCTCCACTACCTCCTCGACCCCG  1416

Qy    109  ATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTGCTGCTGT  168
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Qy    169  TTCCATGGCCCAGCATTCCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAA  228
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Db   1355  TGCTCCTGCCCCTGCCCTGCTGCTCCTGCTGCCCCTGCCCCCTCTGC  1296

Qy    229  GCCTCCCTGCCCACCCATCT  250
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Db   1295  TCCTGCCCCTCCTGCCCCTCCT  1274
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RESULT 15
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; Sequence 2, Application US/09359081
; Patent No. 6316223
;   GENERAL INFORMATION:
;   APPLICANT: Lao, Ying
;   Hiang, Betty
;   Payan, Don
;   TITLE OF INVENTION: Mammalian Protein Interaction Cloning
;   System
;   NUMBER OF SEQUENCES: 5
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
;   STREET: 4 Embarcadero Center, Suite 3400
;   CITY: San Francisco
;   STATE: CA
;   COUNTRY: USA
;   ZIP: 94111-4187
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/359,081
;   FILING DATE: 22-Jul-1999
;   CLASSIFICATION: <Unknown>
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 09/050,863
;   FILING DATE: <Unknown>
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Silva, Robin M.
;   REGISTRATION NUMBER: 38,304
;   REFERENCE/DOCKET NUMBER: A-65638/DJB/RMS
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (415) 781-1989
;   TELEFAX: (415) 949-8711
;   INFORMATION FOR SEQ ID NO: 2:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 2580 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: unknown
;   TOPOLOGY: unknown
;   MOLECULE TYPE: DNA
;   SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-359-081-2

Query Match   15.1%; Score 37.8; DB 4; Length 2580;
Best Local Similarity   49.0%; Pred. No. 0.084;
Matches   99; Conservative   0; Mismatches 103; Indels   0; Gaps   0;

Qy   49 TGCACCCCTGTNCCCACCCTGACCCTCCATGCCCTCTCCAGGACTCCACCGGCAG 108
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Db   1475 TCCCCCCCTGGCTCTTTCACGTCCTCTACCCCGGCGGCCTCCACTACCTCCTCGACCCCG 1416
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OM nucleic - nucleic search, using sw model

Copyright   GenCore version 5.1.6
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Run on: September 18, 2004, 06:17:58 ; Search time 187.363 Seconds
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Title: US-09-079-874-8
Perfect score: 250
Sequence: 1 GTCCTGGTTCCTGAGGCACA.........CTTCCCTGCCCACCCCATCT 250

Scoring table: IDENTITY_NUC
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Searched: 3327077 seqs, 2523723180 residues

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Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
                 Maximum Match 100%
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      19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	249	99.6	250	11	US-09-080-140-8	Sequence 8, Appli
2	249	99.6	960	9	US-09-909-320-17	Sequence 17, Appl
3	249	99.6	960	9	US-09-909-088B-17	Sequence 17, Appl
4	249	99.6	960	9	US-09-905-291A-17	Sequence 17, Appl
5	249	99.6	960	9	US-09-902-853-17	Sequence 17, Appl
6	249	99.6	960	9	US-09-907-821-17	Sequence 17, Appl
7	249	99.6	960	10	US-09-904-011-17	Sequence 17, Appl
8	249	99.6	960	10	US-09-906-742-17	Sequence 17, Appl
9	249	99.6	960	10	US-09-906-838-17	Sequence 17, Appl
10	249	99.6	960	10	US-09-907-613-17	Sequence 17, Appl
11	249	99.6	960	10	US-09-907-942-17	Sequence 17, Appl
12	249	99.6	960	10	US-09-904-859-17	Sequence 17, Appl
13	249	99.6	960	10	US-09-909-204-17	Sequence 17, Appl
14	249	99.6	960	10	US-09-909-204-17	Sequence 17, Appl
15		99.6	960	10	US-09-904-820-17	Sequence 17, Appl
16		99.6	960	10	US-09-904-786-17	Sequence 17, Appl
17		99.6	960	10	US-09-906-646-17	Sequence 17, Appl
18		99.6	960	10	US-09-906-700-17	Sequence 17, Appl
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20		99.6	960	10	US-09-902-903-17	Sequence 17, Appl
21		99.6	960	10	US-09-903-749A-17	Sequence 17, Appl
22		99.6	960	10	US-09-904-119-17	Sequence 17, Appl
23		99.6	960	10	US-09-904-956-17	Sequence 17, Appl
24		99.6	960	10	US-09-902-736-17	Sequence 17, Appl
25		99.6	960	10	US-09-907-794-17	Sequence 17, Appl
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29		99.6	960	10	US-09-902-692-17	Sequence 17, Appl
30		99.6	960	10	US-09-903-520-17	Sequence 17, Appl
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32		99.6	960	10	US-09-905-064-17	Sequence 17, Appl
33		99.6	960	10	US-09-904-553-17	Sequence 17, Appl
34		99.6	960	10	US-09-905-381-17	Sequence 17, Appl
35		99.6	960	10	US-09-905-088-17	Sequence 17, Appl
36		99.6	960	10	US-09-907-575-17	Sequence 17, Appl
37		99.6	960	10	US-09-905-075-17	Sequence 17, Appl
38		99.6	960	10	US-09-902-758-17	Sequence 17, Appl
39		99.6	960	10	US-09-902-634-17	Sequence 17, Appl
40		99.6	960	10	US-09-902-713-17	Sequence 17, Appl
41		99.6	960	10	US-09-907-979-17	Sequence 17, Appl
42		99.6	960	10	US-09-902-615-17	Sequence 17, Appl
43		99.6	960	10	US-09-903-925-17	Sequence 17, Appl
44		99.6	960	10	US-09-906-760A-17	Sequence 17, Appl
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ALIGNMENTS

RESULT 1
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; Sequence 8, Application US/09080140
Publication No. US20044018553A1
GENERAL INFORMATION:
.; APPLICANT: BILLING-MEDEL, PATRICIA
.; APPLICANT: COHEN, MAURICE
.; APPLICANT: COLPITTS, TRACEY L.
.; APPLICANT: FRIEDMAN, PAULA N.
.; APPLICANT: GORDON, JULIAN
.; APPLICANT: GRANADOS, EDWARD N.
.; APPLICANT: HODGES, STEVEN C.
.; APPLICANT: KLASS, MICHAEL R.
.; APPLICANT: KRATOCHVIL, JON D.
.; APPLICANT: ROBERTS-RAPP, LISA
.; APPLICANT: RUSSELL, JOHN C.
.; APPLICANT: STROUPE, STEPHEN D.
.; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
.; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
.; NUMBER OF SEQUENCES: 31
.; CORRESPONDENCE ADDRESS:
.; ADDRESSEE: Abbott Laboratories
.; STREET: 100 Abbott Park Road
.; CITY: Abbott Park
.; STATE: IL
.; COUNTRY: USA
.; ZIP: 60064-3500
.; COMPUTER READABLE FORM:
.; MEDIUM TYPE: Diskette
.; COMPUTER: IBM Compatible
.; OPERATING SYSTEM: DOS
.; SOFTWARE: FastSEQ for Windows Version 2.0
.; CURRENT APPLICATION DATA:
.; APPLICATION NUMBER: US/09/080,140
.; FILING DATE:
.; CLASSIFICATION:
.; PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/856,653
FILING DATE: 15-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6105.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX:
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 250 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: base_polymorphism
LOCATION: 60
OTHER INFORMATION: /note= " N' represents an A or G or
OTHER INFORMATION: T or C polymorphism at this position"
US-09-080-140-8

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RESULT 2
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; Sequence 17, Application US/09909320
; Patent No. US20020132240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,320
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-320-17

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Best Local Similarity   99.6%; Pred. No. 1.1e-64;
Matches 249; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGTCTGTTTCCATGGCCCA 180
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; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-088B-17

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Qy    241  CACCCCATCT  250
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Db    690  CACCCCATCT  699
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RESULT 3
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; Sequence 17, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
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RESULT 4
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; Sequence 17, Application US/09905291A
; Patent No. US20020160374A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
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; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-902-853-17

Query Match   99.6%; Score 249; DB 9; Length 960;
Best Local Similarity   99.6%; Pred. No. 1.1e-64;
Matches 249; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
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Qy   61 CCCACCCTGACCCTCCATGGCCCTCCACCCGGCAGATCAGCTCTAGT 120
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Db 510 CCCACCCTGACCCTCCATGGCCCTCCACCCGGCAGATCAGCTCTAGT 569

; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
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; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
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; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-905-291A-17

Query Match   99.6%; Score 249; DB 9; Length 960;
Best Local Similarity   99.6%; Pred. No. 1.1e-64;
Matches 249; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 509

Qy   61 CCCACCCTGACCCTCCATGGCCCTCCACCCGGCAGATCAGCTCTAGT 120
         |||||||||||||||||||||||||||||||||||||||||||||||
Db 510 CCCACCCTGACCCTCCATGGCCCTCCACCCGGCAGATCAGCTCTAGT 569

Qy 121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGTTTCCATGGCCCA 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGTTTCCATGGCCCA 629

Qy 181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCAGGGAAGCCTTCCCTGCC 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCAGGGAAGCCTTCCCTGCC 689

Qy 241 CACCCCATCT 250
         ||||||||||
Db 690 CACCCCATCT 699

RESULT 5
US-09-902-853-17
; Sequence 17, Application US/09902853
; Publication No. US2002019659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang

```
Qy    121  GACACAGATCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGCTGTTTCCATGGCCCA 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    570  GACACAGATCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGCTGTTTCCATGGCCCA 629

Qy    181  GCATTCTCCACCCTTAACCCTGTCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    630  GCATTCTCCACCCTTAACCCTGTCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy    241  CACCCCATCT 250
           ||||||||||
Db    690  CACCCCATCT 699
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RESULT 6
US-09-907-824-17
; Sequence 17, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-907-824-17

Query Match   99.6%; Score 249; DB 9; Length 960;
Best Local Similarity   99.6%; Pred. No. 1.1e-64;
Matches 249; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACCAAGTCTGACCATGTAGTGTGCACCCCTGTN 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   450 GTCCTGGTTCCTGAGGCACATCCTAACCAAGTCTGACCATGTAGTGTGCACCCCTGTC 509

Qy   61 CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCGAGATCAGCTCTPAGT 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   510 CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 569

Qy   121 GACACAGATCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGCTGTTTCCATGGCCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   570 GACACAGATCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGCTGTTTCCATGGCCCA 629

Qy   181 GCATTCTCCACCCTTAACCCTGTCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   630 GCATTCTCCACCCTTAACCCTGTCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCC 689

Qy   241 CACCCCATCT 250
          ||||||||||
Db   690 CACCCCATCT 699

RESULT 7
US-09-907-841-17
; Sequence 17, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
```

; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423

SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-841-17

Query Match        99.6%;   Score 249;  DB 9;  Length 960;
Best Local Similarity  99.6%;  Pred. No. 1.1e-64;
Matches  249;   Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy      1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCGACCATGTATGTCTGCACCCCTGTN  60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCGACCATGTATGTCTGCACCCCTGTC 509

Qy     61 CCCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCCACCCCGGCAGATCAGTCTAGT 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    510 CCCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCCACCCCGGCAGATCAGTCTAGT 569

Qy    121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGCTCGTGTTCCATGGCCCA 180
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGCTGCTGTTCCATGGCCCA 629

Qy    181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCTCCCCAGGAGCCTTCCCTGCC 240
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCTCCCCAGGAGCCTTCCCTGCC 689

Qy    241 CACCCCATCT 250
            ||||||||||
Db    690 CACCCCATCT 699

RESULT 8
US-09-904-011-17
; Sequence 17, Application US/09904011
; Publication No US2003000530A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-904-011-17

Query Match        99.6%;   Score 249;  DB 10;  Length 960;
Best Local Similarity  99.6%;  Pred. No. 1.1e-64;
Matches  249;   Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy      1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCGACCATGTATGTCTGCACCCCTGTN  60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCGACCATGTATGTCTGCACCCCTGTC 509

Qy     61 CCCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCCACCCCGGCAGATCAGTCTAGT 120

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Db     510 CCCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 569
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Qy     121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCTGTTTCCATGGCCCA 180
           |||||||||||||||||||||||||||||||||||||||||||||||||
Db     570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCTGTTTCCATGGCCCA 629

Qy     181 GCATTCTCCACCCTTAACCCTGTGTCAGCACCTCTTCCCCAGGAGCCTTCCCTGCC 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||
Db     630 GCATTCTCCACCCTTAACCCTGTGTCAGCACCTCTTCCCCAGGAGCCTTCCCTGCC 689

Qy     241 CACCCCATCT 250
           ||||||||||
Db     690 CACCCCATCT 699
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RESULT 9
US-09-906-742-17
; Sequence 17, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/906,742
;   CURRENT FILING DATE: 2001-07-16
;   PRIOR APPLICATION NUMBER: 09/665,350
;   PRIOR FILING DATE: 2000-09-18
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29

;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-906-742-17

Qy Match   99.6%;   Score 249; DB 10;   Length 960;
Best Local Similarity   99.6%;   Pred. No. 1.1e-64;
Matches 249; Conservative   0; Mismatches 1; Indels   0; Gaps   0:

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Qy     1   GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCGACCACCCCTGTN 60
           |||||||||||||||||||||||||||||||||||||||||||||||||||||| |||||
Db   450   GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCGACCACCCCTGTC 509

Qy    61   CCCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   510   CCCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 569

Qy   121   GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCTGTTTCCATGGCCCA 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   570   GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCTGTTTCCATGGCCCA 629

Qy   181   GCATTCTCCACCCTTAACCCTGTGTCAGGACCTGTCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   630   GCATTCTCCACCCTTAACCCTGTGTCAGGACCTGTCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 689

Qy   241   CACCCCATCT 250
           ||||||||||
Db   690   CACCCCATCT 699
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RESULT 10
US-09-906-838-17
; Sequence 17, Application US/09906838
; Publication No. US2003002714A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,838
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR APPLICATION NUMBER: US/09/906,838
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-12-20
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-906-838-17

Query Match   99.6%; Score 249; DB 10; Length 960;
Best Local Similarity   99.6%; Pred. No. 1.1e-64;
Matches 249; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN   60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 509

Qy   61 CCCCACCCTGACCCTCCCATGGCCCTTCCACCCCGGCAGATCCCGCAGATCAGCTCTAGT 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   510 CCCCACCCTGACCCTCCCATGGCCCTTCCACCCCGGCAGATCCCGCAGATCAGCTCTAGT 569

Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGCTGTTTCCATGGCCCA 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   570 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGCTGTTTCCATGGCCCA 629

Qy   181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAGCCTTCCCTGCC 240
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAGCCTTCCCTGCC 689

Qy   241 CACCCCATCT 250
            ||||||||||
Db   690 CACCCCATCT 699

RESULT 11
US-09-907-613-17
; Sequence 17, Application US/09907613
; Publication No. US20030027145A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,613
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423

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; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-613-17

Query Match             99.6%;  Score 249;  DB 10;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 1.1e-64;
Matches  249;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy      1  GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN   60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    450  GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC  509

Qy     61  CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT   120
           |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    510  CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT   569

Qy    121  GACACAGATCGCTGCGAGATGGCCCTCCAACCCTCTCTGCTGTTTCCATGGCCCA     180
           |||||||||||||||||||||||||||||||||||||||||||||||||||
Db    570  GACACAGATCGCTGCGAGATGGCCCTCCAACCCTCTCTGCTGTTTCCATGGCCCA     629

Qy    181  GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC  240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    630  GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC  689

Qy    241  CACCCCATCT  250
           ||||||||||
Db    690  CACCCCATCT  699


RESULT 12
US-09-907-942-17
; Sequence 17, Application US/09907942
; Publication No. US20030027146A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grinaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,942
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
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; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-942-17

Query Match             99.6%;  Score 249;  DB 10;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 1.1e-64;
Matches  249;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;

Qy      1  GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN   60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    450  GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC  509

Qy     61  CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT   120
           |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    510  CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT   569

Qy    121  GACACAGATCGCTGCGAGATGGCCCTCCAACCCTCTCTGCTGTTTCCATGGCCCA     180
           |||||||||||||||||||||||||||||||||||||||||||||||||||
Db    570  GACACAGATCGCTGCGAGATGGCCCTCCAACCCTCTCTGCTGTTTCCATGGCCCA     629

Qy    181  GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC  240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    630  GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC  689

Qy    241  CACCCCATCT  250
           ||||||||||
Db    690  CACCCCATCT  699


RESULT 13
US-09-904-859-17
; Sequence 17, Application US/09904859
; Publication No. US20030036060A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
```

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Db   510 CCCACCCTGACCCTCCCATGGCCCTCTCCACCCTCTGTGCTGTTCCATGGCCCA 569
             |||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   121 GACACAGATCCGCTGCAGATGGCCCCTCCAACCCTCTGTGCTGTTCCATGGCCCA 180

Db   570 GACACAGATCGCTGCAGATGGCCCCTGCAATGGCCCTCCAACCCTCTGCTGTCTGTTTCCATGGCCCA 629
             |||||||||||||||||||||||||||||||||||||||||||||||||
Qy   181 GCATTCTCCACCCTTAACCTGTGCTGCACCTCTTCCCCCCAGGAGCCTTCCCTGCC 240

Db   630 GCATTCTCCACCCTTAACCCTGTCTGCAGGCACCTCTTCCCCCCAGGAGCCTTCCCTGCC 689
             ||||||||
Qy   241 CACCCCATCT 250

Db   690 CACCCCATCT 699
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RESULT 14
US-09-909-204-17
 ; Sequence 17, Application US/09909204
 ; Publication No. US20030036061A1
 ; GENERAL INFORMATION:
 ;  APPLICANT: Genentech, Inc.
 ;  APPLICANT: Ashkenazi, Avi
 ;  APPLICANT: Botstein, David
 ;  APPLICANT: Desnoyers, Luc
 ;  APPLICANT: Eaton, Dan L.
 ;  APPLICANT: Ferrara, Napoleone
 ;  APPLICANT: Filvaroff, Ellen
 ;  APPLICANT: Fong, Sherman
 ;  APPLICANT: Gao, Wei-Qiang
 ;  APPLICANT: Gerber, Hanspeter
 ;  APPLICANT: Gerritsen, Mary E.
 ;  APPLICANT: Goddard, A.
 ;  APPLICANT: Godowski, Paul J.
 ;  APPLICANT: Grimaldi, Christopher J.
 ;  APPLICANT: Gurney, Austin L.
 ;  APPLICANT: Hillan, Kenneth, J.
 ;  APPLICANT: Kljavin, Ivar J.
 ;  APPLICANT: Mather, Jennie P.
 ;  APPLICANT: Pan, James
 ;  APPLICANT: Paoni, Nicholas F.
 ;  APPLICANT: Roy, Margaret Ann
 ;  APPLICANT: Stewart, Timothy A.
 ;  APPLICANT: Tumas, Daniel
 ;  APPLICANT: Williams, P. Mickey
 ;  APPLICANT: Wood, William, I.
 ;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ;  TITLE OF INVENTION: Acids Encoding the Same
 ;  FILE REFERENCE: 10466-14
 ;  CURRENT APPLICATION NUMBER: US/09/909,204
 ;  CURRENT FILING DATE: 2001-07-18
 ;  PRIOR APPLICATION NUMBER: PCT/US00/04414
 ;  PRIOR FILING DATE: 2000-02-22
 ;  PRIOR APPLICATION NUMBER: US 60/143,048
 ;  PRIOR FILING DATE: 1999-07-07
 ;  PRIOR APPLICATION NUMBER: US 60/145,698
 ;  PRIOR FILING DATE: 1999-07-26
 ;  PRIOR APPLICATION NUMBER: US 60/146,222
 ;  PRIOR FILING DATE: 1999-07-28
 ;  PRIOR APPLICATION NUMBER: PCT/US99/20594
 ;  PRIOR FILING DATE: 1999-09-08
 ;  PRIOR APPLICATION NUMBER: PCT/US99/20944
 ;  PRIOR FILING DATE: 1999-09-13
 ;  PRIOR APPLICATION NUMBER: PCT/US99/21090
 ;  PRIOR FILING DATE: 1999-09-15
 ;  PRIOR APPLICATION NUMBER: PCT/US99/21547
 ;  PRIOR FILING DATE: 1999-10-05
 ;  PRIOR APPLICATION NUMBER: PCT/US99/23089
 ;  PRIOR FILING DATE: 1999-09-15
 ;  PRIOR APPLICATION NUMBER: PCT/US99/28214
 ;  PRIOR FILING DATE: 1999-11-29
 ;  PRIOR APPLICATION NUMBER: PCT/US99/28313
 ;  PRIOR FILING DATE: 1999-11-30
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 ;  APPLICANT: Gerber, Hanspeter
 ;  APPLICANT: Gerritsen, Mary E.
 ;  APPLICANT: Goddard, A.
 ;  APPLICANT: Godowski, Paul J.
 ;  APPLICANT: Grimaldi, Christopher J.
 ;  APPLICANT: Gurney, Austin L.
 ;  APPLICANT: Hillan, Kenneth, J.
 ;  APPLICANT: Kljavin, Ivar J.
 ;  APPLICANT: Mather, Jennie P.
 ;  APPLICANT: Pan, James
 ;  APPLICANT: Paoni, Nicholas F.
 ;  APPLICANT: Roy, Margaret Ann
 ;  APPLICANT: Stewart, Timothy A.
 ;  APPLICANT: Tumas, Daniel
 ;  APPLICANT: Williams, P. Mickey
 ;  APPLICANT: Wood, William, I.
 ;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ;  TITLE OF INVENTION: Acids Encoding the Same
 ;  FILE REFERENCE: 10466-14
 ;  CURRENT APPLICATION NUMBER: US/09/904,859
 ;  CURRENT FILING DATE: 2001-07-12
 ;  PRIOR APPLICATION NUMBER: 09/665,350
 ;  PRIOR FILING DATE: 2000-09-18
 ;  PRIOR APPLICATION NUMBER: PCT/US00/04414
 ;  PRIOR FILING DATE: 2000-02-22
 ;  PRIOR APPLICATION NUMBER: US 60/143,048
 ;  PRIOR FILING DATE: 1999-07-07
 ;  PRIOR APPLICATION NUMBER: US 60/145,698
 ;  PRIOR FILING DATE: 1999-07-26
 ;  PRIOR APPLICATION NUMBER: US 60/146,222
 ;  PRIOR FILING DATE: 1999-07-28
 ;  PRIOR APPLICATION NUMBER: PCT/US99/20594
 ;  PRIOR FILING DATE: 1999-09-08
 ;  PRIOR APPLICATION NUMBER: PCT/US99/20944
 ;  PRIOR FILING DATE: 1999-09-13
 ;  PRIOR APPLICATION NUMBER: PCT/US99/21090
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 ;  PRIOR APPLICATION NUMBER: PCT/US99/21547
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 ;  PRIOR APPLICATION NUMBER: PCT/US99/23089
 ;  PRIOR FILING DATE: 1999-09-15
 ;  PRIOR APPLICATION NUMBER: PCT/US99/28214
 ;  PRIOR FILING DATE: 1999-10-05
 ;  PRIOR APPLICATION NUMBER: PCT/US99/28313
 ;  PRIOR FILING DATE: 1999-11-30
 ;  PRIOR APPLICATION NUMBER: PCT/US99/28564
 ;  PRIOR FILING DATE: 1999-11-30
 ;  PRIOR APPLICATION NUMBER: PCT/US99/28565
 ;  PRIOR FILING DATE: 1999-12-02
 ;  PRIOR APPLICATION NUMBER: PCT/US99/30095
 ;  PRIOR FILING DATE: 1999-12-02
 ;  PRIOR APPLICATION NUMBER: PCT/US99/30911
 ;  PRIOR FILING DATE: 1999-12-16
 ;  PRIOR APPLICATION NUMBER: PCT/US99/30999
 ;  PRIOR FILING DATE: 1999-12-20
 ;  PRIOR APPLICATION NUMBER: PCT/US00/00219
 ;  PRIOR FILING DATE: 1999-12-20
 ;  PRIOR APPLICATION NUMBER: PCT/US00/00219
 ;  PRIOR FILING DATE: 2000-01-05
 ;  NUMBER OF SEQ ID NOS: 423
 ;  SEQ ID NO 17
 ;  LENGTH: 960
 ;  TYPE: DNA
 ;  ORGANISM: Homo Sapien
US-09-904-859-17

Query Match    99.6%;  Score 249;  DB 10;  Length 960;
Best Local Similarity   99.6%;  Pred. No. 1.1e-64;
Matches 249;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy     1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 509

Qy    61 CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 120
```

APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/904,820
CURRENT FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
  LENGTH: 960
  TYPE: DNA
  ORGANISM: Homo Sapien
US-09-904-820-17

Query Match   99.6%;   Score 249;   DB 10;   Length 960;
Best Local Similarity   99.6%;   Pred. No. 1.1e-64;
Matches 249;   Conservative   0;   Mismatches   1;   Indels   0;   Gaps   0;

```
Qy     1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCAGTGCTGACCATGTATGTCTGCACCCCTGTN   60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||
Db   450 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCAGTGCTGACCATGTATGTCTGCACCCCTGTC  509

Qy    61 CCCCACCCTGACCCTCCACCTCCCATGGCCCTCTTCCAGGACTCCACCCGGCAGACTCAGCTCTAGT  120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   510 CCCCACCCTGACCCTCCACCTCCCATGGCCCTCTTCCAGGACTCCACCCGGCAGACTCAGCTCTAGT  569

Qy   121 GACACAGATCGCCTGCAGATGGCCCCTCCAACCCTCTGCTCGTGTTCCATGGCCCA  180
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   570 GACACAGATCGCCTGCAGATGGCCCCTCCAACCCTCTGCTCGTGTTCCATGGCCCA  629

Qy   181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC  240
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   630 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCC  689

Qy   241 CACCCCATCT  250
         ||||||||||
Db   690 CACCCCATCT  699
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RESULT 15
US-09-904-17
  Sequence 17, Application US/09904820
  Publication No. US20030036094A1
  GENERAL INFORMATION:
  APPLICANT: Genentech, Inc.
  APPLICANT: Ashkenazi, Avi
  APPLICANT: Botstein, David
  APPLICANT: Desnoyers, Luc
  APPLICANT: Eaton, Dan L.
  APPLICANT: Ferrara, Napoleone
  APPLICANT: Filvaroff, Ellen
  APPLICANT: Fong, Sherman
  APPLICANT: Gao, Wei-Qiang
  APPLICANT: Gerber, Hanspeter
  APPLICANT: Gerritsen, Mary E.
  APPLICANT: Goddard, A.
  APPLICANT: Godowski, Paul J.
  APPLICANT: Grimaldi, Christopher J.
  APPLICANT: Gurney, Austin L.
  APPLICANT: Hillan, Kenneth, J.
  APPLICANT: Kljavin, Ivar J.
  APPLICANT: Mather, Jennie P.
  APPLICANT: Pan, James
  APPLICANT: Paoni, Nicholas F.
  APPLICANT: Roy, Margaret Ann
  APPLICANT: Stewart, Timothy A.
  APPLICANT: Tumas, Daniel
  APPLICANT: Williams, P. Mickey

us-09-079-874-8.rnpb

Search completed: September 18, 2004, 20:20:24
Job time : 188.363 secs

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         GenCore version 5.1.6
  Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:    September 18, 2004, 05:54:35 ; Search time 1143.23 Seconds
                                (without alignments)
                       6530.246 Million cell updates/sec

Title:      US-09-079-874-8
Perfect score: 250
Sequence:   1 GTCCTGGTTCCTGAGGCACA.........CTTCCCTGCCCACCCCATCT 250

Scoring table: IDENTITY_NUC
           Gapop 10.0 , Gapext 1.0

Searched:   2751328 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters:      55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
               Maximum Match 100%
               Listing first 45 summaries

Database :   EST:*
        1:  em_estba:*
        2:  em_esthum:*
        3:  em_estin:*
        4:  em_estmu:*
        5:  em_estov:*
        6:  em_estpl:*
        7:  em_estro:*
        8:  em_htc:*
        9:  gb_est1:*
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       11:  gb_htc:*
       12:  gb_est3:*
       13:  gb_est4:*
       14:  gb_est5:*
       15:  em_estfun:*
       16:  em_estom:*
       17:  em_gss_hum:*
       18:  em_gss_inv:*
       19:  em_gss_pln:*
       20:  em_gss_vrt:*
       21:  em_gss_fun:*
       22:  em_gss_mam:*
       23:  em_gss_mus:*
       24:  em_gss_pro:*
       25:  em_gss_rod:*
       26:  em_gss_phg:*
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       28:  gb_gss1:*
       29:  gb_gss2:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

                           SUMMARIES

Result No.	Score	% Query Match	Match Length	DB	ID	Description
1	249	99.6	435	12	BM707279	BM707279 UI-E-CR1-
2	249	99.6	454	12	BM798911	BM798911 K-EST0082
3	249	99.6	592	12	BM783852	BM783852 K-EST0061
4	249	99.6	911	13	BU194301	BU194301 AGENCOURT

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    5   249  99.6  249      5     13  922   BU168360   BU168360 AGENCOURT
    6   249  99.6  249      6     13  924   BU174317   BU174317 AGENCOURT
    7       99.6  1024      7      8 1024   BC023582   BC023582 Homo sapi
  c 8   247.4  99.0  700      8     13  700   BU621296   BU621296 UI-H-FL1-
    9   244.2  97.7  571      9     12  571   BI763933   BI763933 603049810
  c 10  244.2  97.7  599     10     12  599   BQ019300   BQ019300 UI-H-DT1-
  c 11  244.2  97.7  682     11     14  682   CB850631   CB850631 UI-CF-EN1
  c 12  244.2  97.7  738     12     12  738   BM980194   BM980194 UI-CF-EN1
  c 13  244.2  97.7  743     13     12  743   BM980213   BM980213 UI-CF-EN1
  c 14  244.2  97.7  924     14     13  924   BQ678675   BQ678675 AGENCOURT
    15  244.2  97.7  990     15     11  990   BC048808   BC048808 Homo sapi
    16  244.2  97.7 1009     16     13 1009   BU168445   BU168445 AGENCOURT
  c 17  242.6  97.0  738     17     12  738   BM980828   BM980828 UI-CF-EN1
    18  242.6  97.0  957     18     13  957   BQ876328   BQ876328 AGENCOURT
  c 19  242   96.8  503     19      9  503   AA446964   AA446964 zw85f03.s
    20  241.6  96.6  901     20     13  901   BU173702   BU173702 AGENCOURT
    21  236   94.4  532     21     12  532   BM819647   BM819647 K-EST0087
    22  235.2  94.1  548     22     14  548   N32011     N32011 yw96a06.s1
  c 23  235   94.0  490     23      9  490   AI139599   AI139599 qc57d11.x
  c 24  233.2  93.3  781     24     12  781   BM042696   BM042696 60616054
  c 25  232.8  93.1  517     25     10  517   AI677792   AI677792 wc80d09.x
  c 26  232.4  93.0  508     26     10  508   AW205435   AW205435 UI-H-B11-
    27  232.2  92.9  749     27     12  749   BM042052   BM042052 60616054
    28  228.8  91.5  735     28     12  735   BM041997   BM041997 60615880
    29  224.6  89.8  549     29     14  549   N32614     N32614 yw95e06.s1
  c 30  223   89.2  503     30     12  503   BM975759   BM975759 UI-CF-EN1
  c 31  221.6  88.6  970     31     13  970   BU179764   BU179764 AGENCOURT
    32  216.4  86.6  936     32     13  936   BU174241   BU174241 AGENCOURT
    33  213.4  85.4  523     33     12  523   BI759495   BI759495 603046876
    34  209   83.6  476     34     12  476   BQ012145   BQ012145 UI-1-BC1p
  c 35  208.8  83.5  510     35      9  510   AA525838   AA525838 ni93a06.s
  c 36  208.2  83.3  531     36     12  531   BI761129   BI761129 603043613
    37  206.4  82.6  748     37     12  748   BG765417   BG765417 602738887
    38  194.8  77.9  827     38     12  827   BM018750   BM018750 603646652
  c 39  194   77.6  451     39      9  451   AI936226   AI936226 wo63e01.x
  c 40  192.6  77.0  671     40     12  671   BM042779   BM042779 60616172
  c 41  190.8  76.3  458     41      9  458   AI685741   AI685741 tu37f01.x
    42  190.8  76.3  820     42     14  820   CB996183   CB996183 AGENCOURT
    43  185.8  74.3  325     43      9  325   AA640913   AA640913 nr28b06.r
  c 44  180   72.0  433     44      9  433   AI094278   AI094278 qa72e07.x
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                           ALIGNMENTS

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RESULT 1
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LOCUS       BM707279                 435 bp    mRNA    linear   EST 28-FEB-2002
DEFINITION  UI-E-CR1-aee-c-10-0-UI.r1 UI-E-CR1 Homo sapiens cDNA clone
            UI-E-CR1-aee-c-10-0-UI 5', mRNA sequence.
ACCESSION   BM707279
VERSION     BM707279.1  GI:19020537
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 435)
  AUTHORS   Bonaldo,M.F., Lennon,G. and Soares,M.B.
  TITLE     Normalization and subtraction: two approaches to facilitate gene
            discovery
  JOURNAL   Genome Res. 6 (9), 791-806 (1996)
  MEDLINE   97044477
   PUBMED   8889548
COMMENT     Contact: Soares, MB
            Coordinated Laboratory for Computational Genomics
            University of Iowa
            375 Newton Road, 4156 MBRRF, Iowa City, IA 52242, USA
            Tel: 319 335 8250
            Fax: 319 335 9565
            Email:bento-soares@uiowa.edu
            Tissue Procurement: Dr. Gregg Hageman
```

cDNA Library preparation: Dr. M. Bento Soares, Univeristy of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, Univeristy of Iowa
DNA Sequencing by: Dr. M. Bento Soares, Univeristy of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com).
Seq primer: M13 Reverse.

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FEATURES             Location/Qualifiers
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-E-CR1-aee-c-10-0-UI"
                     /tissue_type="eye anterior segment"
                     /dev_stage="adult"
                     /lab_host="DH10B (life Technologies) (T1 phage resistant)"
                     /clone_lib="UI-E-CR1"
                     /note="Organ: eye; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site_1: EcoR I; Site_2: Not I;
                     UI-E-CR1 is a normalized cDNA library containing the
                     following tissue(s): eye anterior segment. The library was
                     constructed according to Bonaldo, Lennon and Soares,
                     Genome Research, 6:791-806, 1996. First strand cDNA
                     synthesis was primed with an oligo-dT primer containing a
                     Not I site. Double stranded cDNA was ligated to an EcoR I
                     adaptor, digested with Not I, and cloned directionally
                     into pT7T3-Pac vector. The oligonucleotide used to prime
                     the synthesis of first-strand cDNA contains a library tag
                     sequence that is located between the Not I site and the
                     (dT)18 tail. The sequence tag for this library is
                     AATGCCGCAT. This library was created for the program, Gene
                     Discovery in the Visual System, supported by National Eye
                     Institute (NEI)."
ORIGIN

Query Match             99.6%;  Score 249;  DB 12;  Length 435;
  Best Local Similarity   99.6%;  Pred. No. 2.1e-49;
  Matches  249;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy      1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
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Qy     61 CCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 120
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Db    119 CCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 178

Qy    121 GACACAGATCGGCCTGCGAGATGGCCCCTCTCGTCGTGTTTCCATGGCCCA 180
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Db    179 GACACAGATCGGCCTGCGAGATGGCCCCTCTCGTCGTGTTTCCATGGCCCA 238

Qy    181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCTCCCCCAGGAAGCCTTCCCTGCC 240
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Db    239 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCTCCCCCAGGAAGCCTTCCCTGCC 298

Qy    241 CACCCCATCT 250
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Db    299 CACCCCATCT 308
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RESULT 2
BM798911

LOCUS   BM798911   454 bp   mRNA   linear   EST 05-MAR-2002
DEFINITION K-EST0082659 S17N258215 Homo sapiens cDNA clone S17N258215-11-H07
            5', mRNA sequence.
ACCESSION   BM798911
VERSION   BM798911.1 GI:19147143
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 454)
  AUTHORS   Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,

Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
            Kim,Y.S.
TITLE   21C Frontier Korean EST Project 2001
JOURNAL   Unpublished (2002)
COMMENT   Contact: Kim YS
          Genome Research Center
          Korea Research Institute of Bioscience & Biotechnology
          52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
          Tel: +82-42-860-4470
          Fax: +82-42-860-4409
          Email: yongsung@mail.kribb.re.kr
          Plate: 11 row: H column: 07
          High quality sequence stop: 454.

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FEATURES             Location/Qualifiers
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                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="S17N258215-11-H07"
                     /sex="M"
                     /lab_host="Top10F'"
                     /clone_lib="S17N258215"
                     /note="Organ: Stomach; Vector: pCNS; Site_1: EcoRI;
                     Site_2: NotI; The poly (A)+ RNA was dephosphorylated with
                     bacterial alkaline phosphatase (BAP) and then decapped
                     with tabacco acid pyrophosphatase (TAP). The decapped
                     intact mRNA was ligated with DNA-RNA linker including EcoR
                     I site by treatment of T4 RNA ligase and the first strand
                     cDNA was synthesized from oligo dT-selected mRNA by
                     priming with dT-tailed vector. The dT-tailed vector was
                     adjusted to have about 60nt. The cDNA vector was
                     circularized with E. coli DNA ligase after digestion of
                     EcoRI which site is also included in vector. An RNA strand
                     converted to a DNA strand by Okayama-Berg method. The
                     obtained cDNA vectors were used for transformation of
                     competent cells E. coli Top10F' by electroporation method.
                     The cDNA libraries constructed by this method are
                     full-length enriched cDNA library."
ORIGIN

Query Match             99.6%;  Score 249;  DB 12;  Length 454;
  Best Local Similarity   99.6%;  Pred. No. 2.2e-49;
  Matches  249;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy      1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
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Db     93 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 152

Qy     61 CCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 120
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Db    153 CCCACCCTGACCCTCCCATGGCCCTTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT 212

Qy    121 GACACAGATCGGCCTGCGAGATGGCCCCTCTCGTCGTGTTTCCATGGCCCA 180
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Qy    181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCTCCCCCAGGAAGCCTTCCCTGCC 240
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Db    273 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTTCTCCCCCAGGAAGCCTTCCCTGCC 332

Qy    241 CACCCCATCT 250
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Db    333 CACCCCATCT 342
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RESULT 3
BM783852

LOCUS   BM783852   592 bp   mRNA   linear   EST 05-MAR-2002
DEFINITION K-EST0061885 S17N258215 Homo sapiens cDNA clone S17N258215-2-E04
            5', mRNA sequence.
ACCESSION   BM783852
VERSION   BM783852.1 GI:19132084
KEYWORDS   EST.

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SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 592)
AUTHORS     Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
            Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
            Kim,Y.S.
TITLE       21C Frontier Korean EST Project 2001
JOURNAL     Unpublished (2002)
COMMENT     Contact: Kim YS
            Genome Research Center
            Korea Research Institute of Bioscience & Biotechnology
            52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
            Tel: +82-42-860-4470
            Fax: +82-42-860-4409
            Email: yongsung@mail.kribb.re.kr
            Plate: 2 row: E column: 04
            High quality sequence stop: 592.
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                   /clone="S17N258215-2-E04"
                   /sex="M"
                   /lab_host="Top10F'"
                   /clone_lib="S17N258215"
                   /note="Organ: Stomach; Vector: pCNS; Site 1: EcoRI;
                   Site_2: NotI; The poly (A)+ RNA was dephosphorylated with
                   bacterial alkaline phosphatase (BAP) and then decapped
                   with tabacco acid pyrophosphatase (TAP). The decapped
                   intact mRNA was ligated with DNA-RNA linker including EcoR
                   I site by treatment of T4 RNA ligase and the first strand
                   cDNA was synthesized from oligo dT-selected mRNA by
                   priming with dT-tailed vector. The dT-tailed vector was
                   adjusted to have about 60nt. The cDNA vector was
                   circularized with E. coli DNA ligase after digestion of
                   EcoRI which site is also included in vector. An RNA strand
                   converted to a DNA strand by Okayama-Berg method. The
                   obtained cDNA vectors were used for transformation of
                   competent cells E. coli Top10F' by electroporation method.
                   The cDNA libraries constructed by this method are
                   full-length enriched cDNA library."

ORIGIN

Query Match          99.6%;  Score 249;  DB 12;  Length 592;
Best Local Similarity  99.6%;  Pred. No. 2.4e-49;
Matches   249;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy     1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGACACCCTGTN  60
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Qy    61 CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT  120
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Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCTGTTCCATGGCCCA  180
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Db   208 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCTGTTCCATGGCCCA  267

Qy   181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTCCCCCAGGAAGCCTTCCCTGCC  240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   268 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTCCCCCAGGAAGCCTTCCCTGCC  327

Qy   241 CACCCCATCT 250
         ||||||||||
Db   328 CACCCCATCT 337

RESULT 4
BU194301
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LOCUS       BU194301                 911 bp    mRNA      linear   EST 04-SEP-2002
DEFINITION  AGENCOURT_7962297 NIH_MGC_112 Homo saspiens cDNA clone IMAGE:6106261
            5', mRNA sequence.
ACCESSION   BU194301
VERSION     BU194301.1  GI:22708285
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 911)
AUTHORS     NIH-MGC http://mgc.nci.nih.gov/.
TITLE       National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL     Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM347 row: a  column: 14
            High quality sequence stop: 649.
FEATURES            Location/Qualifiers
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                   /tissue_type="melanotic melanoma, cell line"
                   /lab_host="DH10B (phage-resistant)"
                   /clone_lib="NIH_MGC_112"
                   /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                   EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                   into EcoRI/XhoI sites using the following 5' adaptor:
                   GGCACGAG(G). Library constructed by Ling Hong in the
                   laboratory of Gerald M. Rubin (University of California,
                   Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                   Superscript II RT (Life Technologies). Note: this is a
                   NIH_MGC Library."

ORIGIN

Query Match          99.6%;  Score 249;  DB 13;  Length 911;
Best Local Similarity  99.6%;  Pred. No. 3e-49;
Matches   249;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

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Db   375 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGACACCCTGTC 434

Qy    61 CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT  120
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Db   435 CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGT  494

Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGTGTTCCATGGCCCA  180
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Db   495 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGTGTTCCATGGCCCA  554

Qy   181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTCCCCCAGGAAGCCTTCCCTGCC  240
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Db   555 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTCCCCCAGGAAGCCTTCCCTGCC  614

Qy   241 CACCCCATCT 250
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Db   615 CACCCCATCT 624

RESULT 5
BU168360
LOCUS       BU168360                 922 bp    mRNA      linear   EST 04-SEP-2002
DEFINITION  AGENCOURT_7983951 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6119984
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ACCESSION   BU168360
VERSION     BU168360.1  GI:22682344
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 922)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
  COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2399 row: f column: 09
            High quality sequence stop: 597.

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                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC 112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."

ORIGIN
Query Match             99.6%;  Score 249;  DB 13;  Length 922;
Best Local Similarity   99.6%;  Pred. No. 3e-49;
Matches  249;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

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Db   376 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 435

Qy    61 CCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCACCCGGCCCTCTCCAGGACTCTAGT 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   436 CCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCACCCGGCCCTCTCCAGGACTCTAGT 495

Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCTGTTTCCATGGCCCA 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   496 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCTGTTTCCATGGCCCA 555

Qy   181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTGTTCCCCAGGAGCCTTCCCTGCC 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   556 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTGTTCCCCAGGAGCCTTCCCTGCC 615

Qy   241 CACCCCATCT 250
         ||||||||||
Db   616 CACCCCATCT 625


RESULT 6
BU174317
LOCUS       BU174317              924 bp    mRNA    linear     EST 04-SEP-2002
DEFINITION  AGENCOURT_8102304 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6252811
            5', mRNA sequence.
ACCESSION   BU174317
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```
VERSION     BU174317.1  GI:22688301
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 924)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
  COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2399 row: k column: 20
            High quality sequence stop: 587.

FEATURES             Location/Qualifiers
     source          1..924
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6252811"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC 112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."

ORIGIN
Query Match             99.6%;  Score 249;  DB 13;  Length 924;
Best Local Similarity   99.6%;  Pred. No. 3e-49;
Matches  249;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;

Qy     1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   375 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 434

Qy    61 CCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCACCCGGCCCTCTCCAGGACTCTAGT 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   435 CCCACCCTGACCCTCCATGGCCCTCTCCAGGACTCCACCCGGCCCTCTCCAGGACTCTAGT 494

Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCTGTTTCCATGGCCCA 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   495 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCTGTTTCCATGGCCCA 554

Qy   181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTGTTCCCCAGGAGCCTTCCCTGCC 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   555 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTGTTCCCCAGGAGCCTTCCCTGCC 614

Qy   241 CACCCCATCT 250
         ||||||||||
Db   615 CACCCCATCT 624


RESULT 7
BC023582
ID   BC023582   standard; mRNA; HTC; 1024 BP.
XX
AC   BC023582;
XX
SV   BC023582.1
XX
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DT   01-NOV-2002 (Rel. 73, Created)
DT   05-MAR-2003 (Rel. 75, Last updated, Version 3)
XX
DE   Homo sapiens, Similar to prostate stem cell antigen, clone IMAGE:4840974,
DE   mRNA.
XX
KW   HTC.
XX
OS   Homo sapiens (human)
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC   Eutheria; Primates; Catarrhini; Hominidae; Homo.
XX
RN   [1]
RC   NIH-MGC Project URL: http://mgc.nci.nih.gov
RP   1-1024
RA   Strausberg R.;
RT   ;
RL   Submitted (05-FEB-2002) to the EMBL/GenBank/DDBJ databases. Cancer
RL   National Institutes of Health, Mammalian Gene Collection (MGC), Cancer
RL   Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03,
RL   Bethesda, MD 20892-2590, USA
XX
DR   RZPD; IRALp962M1933.
XX
CC   Contact: MGC help desk
CC   Email: cgapbs-r@mail.nih.gov
CC   Tissue Procurement: ATCC/DCTD/DTP
CC   cDNA Library Preparation: Rubin Laboratory
CC   cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
CC   DNA Sequencing by: National Institutes of Health Intramural
CC   Sequencing Center (NISC),
CC   Gaithersburg, Maryland;
CC   Web site: http://www.nisc.nih.gov/
CC   Contact: nisc_mgc@nhgri.nih.gov
CC   Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
CC   Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
CC   Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
CC   Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
CC   Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
CC   McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
CC   Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
CC   Young,A., Zhang,L.-H. and Green,E.D.
CC   Clone distribution: MGC clone distribution information can be found
CC   through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
CC   Series: IRAL Plate: 33 Row: m Column: 19
CC   This clone was selected for full length sequencing because it
CC   passed the following selection criteria: matched mRNA gi: 5031994
CC   This clone has the following problem: retained intron.
XX
FH   Key             Location/Qualifiers
FH
FT   source          1..1024
FT                   /db_xref="taxon:9606"
FT                   /db_xref="R2PD:IRALp962M1933"
FT                   /mol_type="mRNA"
FT                   /note="Vector: pOTB7"
FT                   /organism="Homo sapiens"
FT                   /clone="IMAGE:4840974"
FT                   /tissue_type="Skin, melanotic melanoma, high MDR."
FT                   /clone_lib="NIH MGC 49"
FT                   /lab_host="DH10B-R"
XX
SQ   Sequence 1024 BP; 226 A; 331 C; 285 G; 182 T; 0 other;

Query Match             99.6%;  Score 249;  DB 8;  Length 1024;
Best Local Similarity   99.6%;  Pred. No. 3.1e-49;
Matches  249;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy    1 GTCTCGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  476 GTCTCGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC 535

Qy   61 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCACCCCGGCAGATCAGCTCTAGT 120
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  536 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCACCCCGGCAGATCAGCTCTAGT 595

Qy  121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCCAACCCTCTGTCTGTTTCATGGCCCA 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  596 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCCAACCCTCTGTCTGTTTCATGGCCCA 655

Qy  181 GCATTCTCCACCCTTAACCTGTGTCAGGCACGCACCTTCTTCCCCAGGAAGGCCTTCCCTGCC 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  656 GCATTCTCCACCCTTAACCTGTGTCAGGCACGCACCTTCTTCCCCAGGAAGGCCTTCCCTGCC 715

Qy  241 CACCCCATCT 250
         ||||||||||
Db  716 CACCCCATCT 725


RESULT 8
BU621296/c
LOCUS       BU621296                 700 bp    mRNA            linear   EST 23-SEP-2002
DEFINITION  UI-H-FL1-bfz-h-07-0-UI.s1 NCI_CGAP_FL1 Homo sapiens cDNA clone
            UI-H-FL1-bfz-h-07-0-UI 3', mRNA sequence.
ACCESSION   BU621296
VERSION     BU621296.1  GI:23287511
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 700)
AUTHORS     NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE       National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL     Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: James Martin
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Clone distribution information can be obtained
            from Dr. M. Bento Soares, bento-soares@uiowa.edu
            Seq primer: M13 FORWARD
            POLYA=Yes.
FEATURES             Location/Qualifiers
     source          1..700
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-H-FL1-bfz-h-07-0-UI"
                     /tissue_type="Cell lines"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies)"
                     /clone_lib="NCI_CGAP_FL1"
                     /note="Organ: Chondrosarcoma; Vector: pT7T3-Pac
                     (Pharmacia) with a modified polylinker; Site 1: EcoR I;
                     Site_2: Not I; NCI_CGAP_FL1 is a normalized cDNA library
                     derived from a pool of mRNA obtained from 4 cell lines
                     from grade III chondrosarcoma tissues. The library was
                     constructed according to Bonaldo, Lennon and Soares,
                     Genome Research, 6:791-806, 1996. First strand cDNA
                     synthesis was primed with an oligo-dT primer containing a
                     Not I site. Double stranded cDNA was ligated to an EcoR I
                     adaptor, digested with Not I, and cloned directionally
                     into pT7T3-Pac vector. The oligonucleotide used to prime
                     the synthesis of first-strand cDNA contains a library tag
                     sequence that is located between the Not I site and the
                     (dT)18 tail. The sequence tag for this library is
                     GAGGTCGGTG. The cell lines were provided by Dr. James
                     Martin from the University of Iowa.
                     TAG_TISSUE=Human Chondrosarcoma Grade 3 cell line mix
                     TAG_LIB=UI-H-FL1
                     TAG_SEQ=GAGGTCGGTG"
ORIGIN
```

```
Query Match          99.0%;  Score 247.4;  DB 13;  Length 700;
Best Local Similarity 99.2%;  Pred. No. 6.4e-49;
Matches 248;  Conservative  0;  Mismatches  2;  Indels  0;  Gaps  0;

Qy    1 GTCCTGGTTCCTGAGGCACATCCTAAGCAAGTCTGACCATGCCATGTATGTCTGCACCCTGTN  60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |
Db  522 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC  463

Qy   61 CCCCACCCTGACCCTCCCATGGCCCTTCCAGGACTCCACCCGGCAGATCAGCTCTAGT  120
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  462 CCCCACCCTGACCCTCCCATGGCCCTTCCAGGACTCCACCCGGCAGATCAGCTCTAGT  403

Qy  121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGTGTTTCCATGGCCCA  180
        |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  402 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGTGTTTCCATGGCCCA  343

Qy  181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCCAGGAAGCCTTCCCTGCC  240
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  342 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCCAGGAAGCCTTCCCTGCC  283

Qy  241 CACCCCATCT  250
        ||||||||||
Db  282 CACCCCATCT  273
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```
RESULT 9
BI763933
LOCUS       BI763933              571 bp    mRNA      linear   EST 25-SEP-2001
DEFINITION  603049810F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5189714 5',
            mRNA sequence.
ACCESSION   BI763933
VERSION     BI763933.1  GI:15755511
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 571)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Life Technologies, Inc.
            cDNA Library Preparation: Life Technologies, Inc.
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLAM1474 row: d  column: 03
            High quality sequence stop: 571.
FEATURES             Location/Qualifiers
     source          1..571
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5189714"
                     /lab_host="DH10B"
                     /clone_lib="NIH_MGC 116"
                     /note="Organ: pooled colon, kidney, stomach; Vector:
                     pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA
                     source anonymous Pool of 3 colons, age 26 yo male, 49 yo
                     female, 71 yo male colon; 46 yo male kidney, and pool of 2
                     stomachs, 62 yo male and 70 yo female. Library is
                     oligo-dT primed and directionally cloned (EcoRV site is
                     destroyed upon cloning). Average insert size 1.4 kb,
                     insert size range 1-3 kb. Library is normalized and
                     enriched for full-length clones and was constructed by C.
                     Gruber (Invitrogen). Research Genetics tracking code
                     023. Note: this is a NIH_MGC Library."
ORIGIN
```

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Query Match          97.7%;  Score 244.2;  DB 12;  Length 571;
Best Local Similarity 98.4%;  Pred. No. 3.4e-48;
Matches 246;  Conservative  0;  Mismatches  4;  Indels  0;  Gaps  0;

Qy    1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN  60
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Db   87 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTC  146

Qy   61 CCCCACCCTGACCCTCCCATGGCCCTTCCAGGACTCCACCCGGCAGATCAGCTCTAGT  120
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  147 CCCCACCCTGACCCTCCCATGGCCCTTCCAGGACTCCACCCGGCAGATCGGCTCTATT  206

Qy  121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGTGTTCCATGGCCCA  180
        |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  207 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTGTGTTTCCATGGCCCA  266

Qy  181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCCAGGAAGCCTTCCCTGCC  240
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  267 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCCAGGAAGCCTTCCCTGCC  326

Qy  241 CACCCCATCT  250
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Db  327 CACCCCATCT  336
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```
RESULT 10
BQ019300/c
LOCUS       BQ019300              599 bp    mRNA      linear   EST 17-JUN-2002
DEFINITION  UI-H-DT1-awn-p-05-0-UI.s1 NCI_CGAP_DT1 Homo sapiens cDNA clone
            IMAGE:5891956 3', mRNA sequence.
ACCESSION   BQ019300
VERSION     BQ019300.1  GI:19754577
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 599)
  AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
  TITLE     National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
  JOURNAL   Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Dr. Jose Mercuende
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Clone distribution information can be found
            through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
            Seq primer: M13 FORWARD
            POLYA=Yes.
FEATURES             Location/Qualifiers
     source          1..599
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5891956"
                     /tissue_type="Metastatic Chondrosarcoma"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies)"
                     /clone_lib="NCI_CGAP_DT1"
                     /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site_1: EcoR I; Site_2: Not I;
                     NCI_CGAP_DT1 is a normalized cDNA library containing the
                     following tissue(s): Metastatic Chondrosarcoma in Lung.
                     The library was constructed according to Bonaldo, Lennon
                     and Soares, Genome Research, 6:791-806, 1996. First strand
                     cDNA synthesis was primed with an oligo-dT primer
                     containing a Not I site. Double stranded cDNA was ligated
                     to an EcoR I adaptor, digested with Not I, and cloned
                     directionally into pT7T3-Pac vector. The oligonucleotide
```

```
                 used to prime the synthesis of first-strand cDNA contains
                 a library tag sequence that is located between the Not I
                 site and the (dT)18 tail. The sequence tag for this
                 library is AACTGTTCGG.
                 TAG_TISSUE=lung metatastic chondrosarcoma
                 TAG_LIB=UI-H-DT1
                 TAG_SEQ=AACTGTTCGG"
ORIGIN
   Query Match      97.7%;  Score 244.2;  DB 12;  Length 599;
   Best Local Similarity  98.4%;  Pred. No. 3.5e-48;
   Matches 246;  Conservative  0;  Mismatches  4;  Indels  0;  Gaps  0;

Qy    1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGATGCTGACACCCCTGTN 60
          ||||||| |||||||||||||||||||||||||||||||||||||||||||||||||||
Db  522 GTCGTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGATGCTGACACCCCTGTC 463

Qy   61 CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCGAGATCAGCTCTAGT 120
          ||||||| |||||||||||||||||||||||||||||||||||||||||||||||||||
Db  462 CCCACCCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCGAGATCAGCTCTAGT 403

Qy  121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGTTCCATGGCCCA 180
          |||||||||||||||||||||||||||||||||||||||  |||| |||||||||||||
Db  402 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTTTGCTGTGTTTCCATGGCCCA 343

Qy  181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  342 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 283

Qy  241 CACCCCATCT 250
          |||||||| |
Db  282 CACCCCATTT 273

RESULT 11
CB850631/c
LOCUS       CB850631       682 bp     mRNA      linear   EST 22-APR-2003
DEFINITION  UI-CF-EN1-acq-e-07-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
            UI-CF-EN1-acq-e-07-0-UI 3', mRNA sequence.
ACCESSION   CB850631
VERSION     CB850631.1  GI:30045398
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 682)
AUTHORS     Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE       Normalization and subtraction: two approaches to facilitate gene
            discovery
JOURNAL     Genome Res. 6 (9), 791-806 (1996)
MEDLINE     97044477
PUBMED      8889548
COMMENT     Contact: McCray, PB
            McCray Lab
            University of Iowa
            2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
            Tel: 319 356 4866
            Fax: 319 356 7171
            Email: paul-mccray@uiowa.edu
            Tissue Procurement: Dr. M. J. Welsh, University of Iowa
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Researchers may obtain clones from Research
            Genetics (www.resgen.com).
            Seq primer: M13 FORWARD
            POLYA=No.
FEATURES             Location/Qualifiers
     source          1..682
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
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                 /clone="UI-CF-EN1-acq-e-07-0-UI"
                 /tissue_type="Primary Lung Cystic Fibrosis Epithelial
                 Cells"
                 /dev_stage="Adult"
                 /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
                 /clone_lib="UI-CF-EN1"
                 /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
                 modified polylinker; Site_1: EcoR I; Site_2: Not I;
                 UI-CF-EN1 is a normalized cDNA library containing the
                 following tissue(s): Primary Lung Cystic Fibrosis
                 Epithelial Cells. The library was constructed according to
                 Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                 1996. First strand cDNA synthesis was primed with an
                 oligo-dT primer containing a Not I site. Double stranded
                 cDNA was ligated to an EcoR I adaptor, digested with Not
                 I, and cloned directionally into pT7T3-Pac vector. The
                 oligonucleotide used to prime the synthesis of
                 first-strand cDNA contains a library tag sequence that is
                 located between the Not I site and the (dT)18 tail. The
                 sequence tag for this library is CTGCTCAGGT.
                 TAG_SEQ=None found"
ORIGIN
   Query Match      97.7%;  Score 244.2;  DB 14;  Length 682;
   Best Local Similarity  98.4%;  Pred. No. 3.7e-48;
   Matches 246;  Conservative  0;  Mismatches  4;  Indels  0;  Gaps  0;

Qy    1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGATGCTGACACCCCTGTN 60
          ||||||| |||||||||||||||||||||||||||||||||||||||||||||||||||
Db  463 GTCGTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGATGCTGACACCCCTGTC 404

Qy   61 CCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCGAGATCAGCTCTAGT 120
          ||||||| |||||||||||||||||||||||||||||||||||||||||||||| |||
Db  403 CCCACCCCTGACCCTCCCATGGCCCTCTCCAGGACTCCACCCGGCGAGATCGGCTCTATT 344

Qy  121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTGTTCCATGGCCCA 180
          |||||||||||||||||||||||||||||||||||||||  |||| |||||||||||||
Db  343 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGTGTTTCCATGGCCCA 284

Qy  181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 240
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Db  283 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 224

Qy  241 CACCCCATCT 250
          ||||||||||
Db  223 CACCCCATCT 214

RESULT 12
BM980194/c
LOCUS       BM980194       738 bp     mRNA      linear   EST 21-FEB-2003
DEFINITION  UI-CF-EN1-adf-d-13-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
            UI-CF-EN1-adf-d-13-0-UI 3', mRNA sequence.
ACCESSION   BM980194
VERSION     BM980194.1  GI:19601409
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 738)
AUTHORS     Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE       Normalization and subtraction: two approaches to facilitate gene
            discovery
JOURNAL     Genome Res. 6 (9), 791-806 (1996)
MEDLINE     97044477
PUBMED      8889548
COMMENT     Contact: McCray, PB
            McCray Lab
            University of Iowa
            2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
            Tel: 319 356 4866
            Fax: 319 356 7171
```

KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 743)
AUTHORS   Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE   Normalization and subtraction: two approaches to facilitate gene
            discovery
JOURNAL   Genome Res. 6 (9), 791-806 (1996)
MEDLINE   97044477
PUBMED   8889548
COMMENT   Contact: McCray, PB
            McCray Lab
            University of Iowa
            2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
            Tel: 319 356 4866
            Fax: 319 356 7171
            Email: paul-mccray@uiowa.edu
            Tissue Procurement: Dr. M. J. Welsh, University of Iowa
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Researchers may obtain clones from Research
            Genetics (www.resgen.com) or from Open Biosystems
            (www.openbiosystems.com).
            Seq primer: M13 FORWARD
            POLYA=Yes.

FEATURES   Location/Qualifiers
     source   1..743
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-CF-EN1-adf-h-09-0-UI"
                     /tissue_type="Primary Lung Cystic Fibrosis Epithelial
                     Cells"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
                     /clone_lib="UI-CF-EN1"
                     /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site 1: EcoR I; Site_2: Not I;
                     UI-CF-EN1 is a normalized cDNA library containing the
                     following tissue(s): Primary Lung Cystic Fibrosis
                     Epithelial Cells. The library was constructed according to
                     Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                     1996. First strand cDNA synthesis was primed with an
                     oligo-dT primer containing a Not I site. Double stranded
                     cDNA was ligated to an EcoR I adaptor, digested with Not
                     I, and cloned directionally into pT7T3-Pac vector. The
                     oligonucleotide used to prime the synthesis of
                     first-strand cDNA contains a library tag sequence that is
                     located between the Not I site and the (dT)18 tail. The
                     sequence tag for this library is CTGCTCAGGT.
                     TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
                     6hr to LPS 24h
                     TAG_LIB=UI-CF-EN1
                     TAG_SEQ=CTGCTCAGGT"

ORIGIN

  Query Match   97.7%; Score 244.2; DB 12; Length 743;
  Best Local Similarity   98.4%; Pred. No. 3.8e-48;
  Matches 246; Conservative   0; Mismatches   4; Indels   0; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCAGCATCCTAACGCAAGTCTGACCAGTGTATGTCTGCACCCCTGTN 60
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Db   522 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCAGTGTATGTCTGCGCCCCTGTC 463

Qy   61 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCCGGCAGATCAGCTCTAGT 120
              |||||||||||||||||||||||||||||||||||||||||||||||||||| ||||| |
Db   462 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCCGGCAGATCGGCTCTATT 403

Qy   121 GACACAGATCCGGCTGCAGATGGGCCCCTGCAACCCTCTCTGCTGCTGTTTCCATGGCCCA 180

Email: paul-mccray@uiowa.edu
Tissue Procurement: Dr. M. J. Welsh, University of Iowa
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com) or from Open Biosystems
(www.openbiosystems.com).
Seq primer: M13 FORWARD
POLYA=Yes.

FEATURES   Location/Qualifiers
     source   1..738
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-CF-EN1-adf-d-13-0-UI"
                     /tissue_type="Primary Lung Cystic Fibrosis Epithelial
                     Cells"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
                     /clone_lib="UI-CF-EN1"
                     /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site 1: EcoR I; Site 2: Not I;
                     UI-CF-EN1 is a normalized cDNA library containing the
                     following tissue(s): Primary Lung Cystic Fibrosis
                     Epithelial Cells. The library was constructed according to
                     Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                     1996. First strand cDNA synthesis was primed with an
                     oligo-dT primer containing a Not I site. Double stranded
                     cDNA was ligated to an EcoR I adaptor, digested with Not
                     I, and cloned directionally into pT7T3-Pac vector. The
                     oligonucleotide used to prime the synthesis of
                     first-strand cDNA contains a library tag sequence that is
                     located between the Not I site and the (dT)18 tail. The
                     sequence tag for this library is CTGCTCAGGT.
                     TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
                     6hr to LPS 24h
                     TAG_LIB=UI-CF-EN1
                     TAG_SEQ=CTGCTCAGGT"

ORIGIN

  Query Match   97.7%; Score 244.2; DB 12; Length 738;
  Best Local Similarity   98.4%; Pred. No. 3.8e-48;
  Matches 246; Conservative   0; Mismatches   4; Indels   0; Gaps   0;

Qy   1 GTCCTGGTTCCTGAGGCAGCATCCTAACGCAAGTCTGACCAGTGTATGTCTGCACCCCTGTN 60
              ||||||||||||||||||| |||||||||||||||||||||||||||||||| ||||||
Db   522 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCAGTGTATGTCTGCGCCCCTGTC 463

Qy   61 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCCGGCAGATCAGCTCTAGT 120
              |||||||||||||||||||||||||||||||||||||||||||||||||||| ||||| |
Db   462 CCCCACCCTGACCCTCCCATGGCCCTCTCCAGGACTCCCACCCCGGCAGATCGGCTCTATT 403

Qy   121 GACACAGATCCGGCTGCAGATGGGCCCCTGCAACCCTCTCTGCTGCTGTTTCCATGGCCCA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   402 GACACAGATCCGGCTGCAGATGGGCCCCTGCAACCCTCTCTGCTGCTGTTTCCATGGCCCA 343

Qy   181 GCATCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCAGGAAGCCTTCCCTGCC 240
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Db   342 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCAGGAAGCCTTCCCCTGCC 283

Qy   241 CACCCCATCT 250
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Db   282 CACCCCATCT 273

RESULT 13
BM980213/c
LOCUS   BM980213   743 bp   mRNA   linear   EST 21-FEB-2003
DEFINITION UI-CF-EN1-adf-h-09-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
            UI-CF-EN1-adf-h-09-0-UI 3', mRNA sequence.
ACCESSION   BM980213
VERSION   BM980213.1 GI:19601447

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Db   402 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGCTGTTCCATGGCCCA 343
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   181 GCATTCTCCACCCTTAACCCTGTCTGCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 240
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Db   342 GCATTCTCCACCCTTAACCCTGTCTGCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 283

Qy   241 CACCCCATCT 250
         ||||||||||
Db   282 CACCCCATCT 273
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RESULT 14
BQ678675
LOCUS   BQ678675   924 bp   mRNA   linear   EST 15-JUL-2002
DEFINITION AGENCOURT_8183287 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6262397
            5', mRNA sequence.
ACCESSION   BQ678675
VERSION   BQ678675.1 GI:21791354
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 924)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2424 row: k column: 06
            High quality sequence stop: 673.
FEATURES   Location/Qualifiers
   source   1..924
            /organism="Homo sapiens"
            /mol_type="mRNA"
            /db_xref="taxon:9606"
            /clone="IMAGE:6262397"
            /tissue_type="melanotic melanoma, cell line"
            /lab_host="DH10B (phage-resistant)"
            /clone_lib="NIH_MGC_112"
            /note="Organ: sKin; Vector: pOTB7; Site 1: XhoI; Site 2:
            EcoRI; cDNA made by oligo-dT priming. Directionally cloned
            into EcoRI/XhoI sites using the following 5' adaptor:
            GGCACGAG(G). Library constructed by Ling Hong in the
            laboratory of Gerald M. Rubin (University of California,
            Berkeley) using ZAP-cDNA synthesis Kit (Stratagene) and
            Superscript II RT (Life Technologies). Note: this is a
            NIH_MGC Library."
ORIGIN

Query Match   97.7%; Score 244.2; DB 13; Length 924;
Best Local Similarity 98.4%; Pred. No. 4.2e-48;
Matches 246; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy     1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
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Db   463 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCGCCCCTGTC 522

Qy    61 CCCACCCCTGACCCTCCATGGCCCCTCCAGGACTCCCACCCGGAGATCAGCTCAGT 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   523 CCCACCCCTGACCCTCCATGGCCCCTCCAGGACTCCCACCCGGAGATCGGCTCTATT 582

Qy   121 GACACAGATCCGCCTGCAGATGGCCCCTGCCCCTCCAACCCTCTCTGCTGCTGTTTCCATGGCCCA 180
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Db   583 GACACAGATCCGCCTGCAGATGGCGCCCTCCCCTCCAACCCTCTCGCTGCTGTTTCCATGGCCCA 642
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Qy   181 GCATTCTCCACCCTTAACCCTGTCTGCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 240
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Db   643 GCATTCTCCACCCTTAACCCTGTCTGCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCC 702

Qy   241 CACCCCATCT 250
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Db   703 CACCCCATCT 712
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RESULT 15
BC048808
LOCUS   BC048808   990 bp   mRNA   linear   HTC 25-MAR-2003
DEFINITION Homo sapiens, prostate stem cell antigen, clone IMAGE:5187662,
            mRNA.
ACCESSION   BC048808
VERSION   BC048808.1 GI:29179405
KEYWORDS   HTC.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 990)
AUTHORS   Strausberg,R.
TITLE   Direct Submission
JOURNAL   Submitted (14-MAR-2003) National Institutes of Health, Mammalian
            Gene Collection (MGC), Cancer Genomics Office, National Cancer
            Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
            USA
REMARK   NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT   Contact: MGC help desk
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Life Technologies, Inc.
            cDNA Library Preparation: Life Technologies, Inc.
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC),
            Gaithersburg, Maryland;
            Web site: http://www.nisc.nih.gov/
            Contact: nisc_mgc@nhgri.nih.gov
            Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
            Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
            Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
            Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
            Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
            McDowell,J., Pearson,R., Stanfripp,S., Thomas,P.J., Touchman,J.W.,
            Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
            Young,A., Zhang,L.-H. and Green,E.D.
            Clone distribution: MGC clone distribution information can be found
            through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
            Series: IRAK Plate: 93 Row: h Column: 18
            This clone was selected for full length sequencing because it
            passed the following selection criteria: matched mRNA gi: 5031994
            This clone has the following problem: retained intron.
FEATURES   Location/Qualifiers
   source   1..990
            /organism="Homo sapiens"
            /mol_type="mRNA"
            /db_xref="taxon:9606"
            /clone="IMAGE:5187662"
            /tissue_type="Colon, Kidney, Stomach, adult, whole pooled"
            /clone_lib="NIH_MGC_116"
            /lab_host="DH10B"
            /note="Vector: pCMV-SPORT6"
ORIGIN

Query Match   97.7%; Score 244.2; DB 11; Length 990;
Best Local Similarity 98.4%; Pred. No. 4.4e-48;
Matches 246; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy     1 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTN 60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   467 GTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCGCCCCTGTC 526
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Qy   61 CCCCACCCTGACCCTCCCATGGCCCTTCCAGGACTCCCACCCGGCAGATCAGCTCTAGT 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||| ||||| |
Db  527 CCCCACCCTGACCCTCCCATGGCCCTTCCAGGACTCCCACCCGGCAGATCGGCTCTATT 586

Qy  121 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGTTTCCATGGCCCA 180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  587 GACACAGATCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGTTTCCATGGCCCA 646

Qy  181 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTTCCCCAGGAAGCCTTCCCTGCC 240
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Db  647 GCATTCTCCACCCTTAACCCTGTGCTCAGGCACCCTCTTCCCCCAGGAAGCCTTCCCTGCC 706

Qy  241 CACCCCATCT 250
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Db  707 CACCCCATCT 716
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Search completed: September 18, 2004, 19:14:28
Job time : 1144.23 secs

CM nucleic - nucleic search, using sw model

Run on: September 18, 2004, 04:35:58.; Search time 1296.93 Seconds
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                                            8655.682 Million cell updates/sec

GenCore version 5.1.6
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Title: US-09-079-874-9
Perfect score: 259
Sequence: 1 TAACCCTGTCGTCAGGCACC........CATTCGTGGGGCTCCCTGAA 259

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 3470272 seqs, 2167151695 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   GenEmbl:*
    1: gb_ba:*
    2: gb_htg:*
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    7: gb_ph:*
    8: gb_pl:*
    9: gb_pr:*
   10: gb_ro:*
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   12: gb_sy:*
   13: gb_un:*
   14: gb_vi:*
   15: em_ba:*
   16: em_fun:*
   17: em_hum:*
   18: em_in:*
   19: em_mu:*
   20: em_om:*
   21: em_or:*
   22: em_ov:*
   23: em_pat:*
   24: em_ph:*
   25: em_pl:*
   26: em_ro:*
   27: em_sts:*
   28: em_un:*
   29: em_vi:*
   30: em_htg_hum:*
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   32: em_htg_other:*
   33: em_htg_mus:*
   34: em_htg_pln:*
   35: em_htg_rod:*
   36: em_htg_mam:*
   37: em_htg_vrt:*
   38: em_sy:*
   39: em_htgo_hum:*
   40: em_htgo_mus:*
   41: em_htgo_other:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB		ID	Description
1	259	100.0	758	6		AX014148	Sequence
2	259	100.0	758	6		BD205056	Human nuc
3	259	100.0	946	9		HSA297436	Homo sapi
4	259	100.0	960	6		AR410610	Sequence
5	259	100.0	960	6		AX201328	Sequence
6	259	100.0	960	6		AX697426	Sequence
7	259	100.0	960	6		BD075381	Secretory
8	259	100.0	960	6		BD172241	Secreted
9	259	100.0	960	6		BD172560	Secreted
10	259	100.0	960	6		BD172879	Secreted
11	259	100.0	960	6		BD173198	Secreted
12	259	100.0	960	6		BD175232	Secretory
13	259	100.0	960	9		AY358912	Homo sapi
14	259	100.0	979	6		BD076397	Human pro
15	259	100.0	1015	9		BC023582	Homo sapi
16	259	100.0	157839	2		AC015718	Homo sapi
17	255.8	98.8	100079	9	c	AC108002	Homo sapi
18	255.8	98.8	103247	2		AF176678	Homo sapi
19	254.2	98.1	105156	2		AF235094	Homo sapi
20	238.6	92.1	990	6		AX014204	Sequence
21	238.6	92.1	990	6		BD205072	Human nuc
22	238.6	92.1	990	6		AF043498	Homo sapi
23	238.6	92.1	998	6		AR162849	Sequence
24	238.6	92.1	998	6		AR302232	Sequence
25	238.6	92.1	998	6		AX080304	Sequence
26	238.6	92.1	998	6		BD193367	Prostate
27	238	91.9	998	6		BD264314	PSCA:.pro
28	49.6	19.2	864	10	c	AF319173	Mus muscu
29	49.6	19.2	190653	10		AC118022	Mus muscu
30	42.8	16.5	139551	2	c	AC092412	Felis cat
31	41.2	15.9	153394	2		AC092731	Felis cat
32	39.8	15.4	186303	2		AC122761	Mus muscu
33	39.8	15.4	192548	2	c	AC121536	Mus muscu
34	39.8	15.4	214624	2		AC124995	Mus muscu
35	39	15.1	99686	2		AC022226	Homo sapi
36	39	15.1	156024	9		AC104300	Homo sapi
37	39	15.1	161387	2	c	AC016929	Homo sapi
38	38.2	14.7	66325	9		BX322635	Human DNA
39	38.2	14.7	125020	9	c	AF429315	Homo sapi
40	37.6	14.5	98985	2	c	AL139427	Homo sapi
41	37.6	14.5	183460	9		AL356753	Human DNA
42	37.4	14.4	220897	2	c	AL954635	Homo sapi
43	37.2	14.4	191436	9	c	AL158830	Human DNA
44	37.2	14.4	267540	2	c	AC107153	Rattus no
45	37	14.3	186842	2	c	AC146283	Callithri

ALIGNMENTS

RESULT 1
AX014148
LOCUS   AX014148   758 bp   DNA   linear   PAT 07-SEP-2000
DEFINITION Sequence 16 from Patent WO9954447.
ACCESSION   AX014148
VERSION   AX014148.1   GI:11040595
KEYWORDS   ;
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS   Schmitt,A., Specht,T., Dahl,E., Hinzmann,B., Rosenthal,A. and
            Pilarsky,C.
TITLE   Human nucleic acid sequences of bladder tumour tissue

Pred. No. is the number of results predicted by chance to have a

JOURNAL   Patent: WO 9954447-A 16 28-OCT-1999;
             SCHMITT ARMIN (DE); SPECHT THOMAS (DE); DAHL EDGAR (DE); HINZMANN
             BERND (DE); ROSENTHAL ANDRE (DE); METAGEN GES FUER GENOMFORSCHUN
             (DE); PILARSKY CHRISTIAN (DE)
FEATURES   Location/Qualifiers
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Best Local Similarity 100.0%; Pred. No. 2.3e-58;
Matches 259;   Conservative   0; Mismatches 0; Indels   0; Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
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Db   437 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 496

Qy   61 CTTGAGCCAGGTGCTGGTCCGTGGTGTCCCCGCGAGCAGGGGACAGGCACTCAGGAG 120
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Db   497 CTTGAGCCAGGTGCTGGTCCGTGGTGTCCCCGCGAGCAGGGGACAGGCACTCAGGAG 556

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGGACTAGGAACTGGAGTGAGTCGACGTG 180
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Db   557 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGGACTAGGAACTGGAGTGAGTCGACGTG 616

Qy   181 AGTTCCTGGAGTCTCCAGAGATGGGGCTGGAGGGCTGGAGGAAGGGGCCAGGCCTCAC 240
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Db   617 AGTTCCTGGAGTCTCCAGAGATGGGGCTGGAGGGCTGGAGGAAGGGGCCAGGCCTCAC 676

Qy   241 ATTCGTGGGGCTCCCTGAA 259
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Db   677 ATTCGTGGGGCTCCCTGAA 695

RESULT 2
BD205056
LOCUS   BD205056   758 bp   DNA   linear   PAT 17-JUL-2003
DEFINITION Human nucleic acid sequence originating in cystic cancer tissue.
ACCESSION   BD205056
VERSION   BD205056.1 GI:33014826
KEYWORDS   JP 2002512023-A/10.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 758)
AUTHORS   Specht,T., Hinzmann,B., Schmitt,A., Pilarsky,C., Dahl,E. and
            Rosenthal,A.
TITLE   Human nucleic acid sequence originating in cystic cancer tissue
JOURNAL   Patent: JP 2002512023-A 10 23-APR-2002;
            METAGEN GESELLSCHAFT FUER GENOM FORSCHUNG MBH
OS   Homo sapiens (human)
PN   JP 2002512023-A/10
PD   23-APR-2002
PF   15-APR-1999 JP 2000544779
PR   21-APR-1999 DE 198 18 619.3
PI   THOMAS SPECHT,BERND HINZMANN,ARMIN SCHMITT,CHRISTIAN PILARSKY,
PI   EDGAR DAHL,
PI   ANDRE ROSENTHAL,
PC   C12N15/09,A61K38/00,A61K39/395,A61K39/395,A61K48/00,A61P13/10,
PC   A61P35/00,
PC   C07K14/47,C07K16/18,C12N5/10,C12P21/02,C12P21/08,C12Q1/68, PC
            C12N15/00,
PC   A61K37/02,C12N5/00
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FH   Key   Location/Qualifiers
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FT   /organism='Homo sapiens (human)'.
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Query Match   100.0%;   Score 259; DB 6; Length 758;
Best Local Similarity 100.0%; Pred. No. 2.3e-58;
Matches 259;   Conservative   0; Mismatches 0; Indels   0; Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
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Db   437 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 496

Qy   61 CTTGAGCCAGGTGCTGGTCCGTGGTGTCCCCGCGAGCAGGGGACAGGCACTCAGGAG 120
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Db   497 CTTGAGCCAGGTGCTGGTCCGTGGTGTCCCCGCGAGCAGGGGACAGGCACTCAGGAG 556

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGGACTAGGAACTGGAGTGAGTCGACGTG 180
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Db   557 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGGACTAGGAACTGGAGTGAGTCGACGTG 616

Qy   181 AGTTCCTGGAGTCTCCAGAGATGGGGCTGGAGGGCTGGAGGAAGGGGCCAGGCCTCAC 240
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Db   617 AGTTCCTGGAGTCTCCAGAGATGGGGCTGGAGGGCTGGAGGAAGGGGCCAGGCCTCAC 676

Qy   241 ATTCGTGGGGCTCCCTGAA 259
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Db   677 ATTCGTGGGGCTCCCTGAA 695

RESULT 3
HSA297436
LOCUS   HSA297436   946 bp   mRNA   linear   PRI 13-OCT-2000
DEFINITION Homo sapiens mRNA for prostate stem cell antigen (PSCA gene).
ACCESSION   AJ297436
VERSION   AJ297436.1 GI:9367211
KEYWORDS   prostate stem cell antigen; PSCA gene.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS   Bahrenberg,G., Brauers,A., Joost,H.G. and Jakse,G.
TITLE   Reduced expression in PSCA, a member of the LY-6 family of cell
            surface antigens, in bladder, esophagus, and stomach tumors
JOURNAL   Biochem. Biophys. Res. Commun. 275 (3), 783-788 (2000)
MEDLINE   20431743
PUBMED   10973799
REFERENCE   2 (bases 1 to 946)
AUTHORS   Bahrenberg,G.
TITLE   Direct Submission
JOURNAL   Submitted (12-JUL-2000) Bahrenberg G., Institut fuer Pharmakologie
            und Toxikologie, RWTH Aachen, Wendlingweg2, Aachen, NRW, 52057,
            GERMANY
FEATURES   Location/Qualifiers
     source   1..946
                  /organism="Homo sapiens"
                  /mol_type="mRNA"
                  /db_xref="taxon:9606"
                  /sex="female"
                  /tissue_type="urothelium"
                  /country="Germany"
     gene   1..946
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     CDS   20..391
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                  /note="GPI-anchored cell surface protein"
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                  /protein_id="CAB97347.1"
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Query Match       100.0%; Score 259; DB 9; Length 946;
Best Local Similarity 100.0%; Pred. No. 2.3e-58;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy    1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 60
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Db  674 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 733

Qy   61 CTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACCAGGGACACTCAGGAG 120
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Db  734 CTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACCAGGGACACTCAGGAG 793

Qy  121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGGACTGAGTAGAACTGAGAGTCGACGTG 180
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Db  794 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGGACTGAGTAGAACTGAGAGTCGACGTG 853

Qy  181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGGAGGCCGGAGGAAGGGGCCAGGCCTCAC 240
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Db  854 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGGAGGCCGGAGGAAGGGGCCAGGCCTCAC 913

Qy  241 ATTCGTGGGGCTCCCTGAA 259
        |||||||||||||||||||
Db  914 ATTCGTGGGGCTCCCTGAA 932


RESULT 4
AR410610
LOCUS       AR410610    960 bp   DNA      linear   PAT 18-DEC-2003
DEFINITION  Sequence 17 from patent US 6635468.
ACCESSION   AR410610
VERSION     AR410610.1  GI:40162110
KEYWORDS    .
SOURCE      Unknown.
ORGANISM    Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 960)
AUTHORS     Ashkenazi,A., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
            Filvaroff,E., Fong,S., Gao,W.-Q.; Gerber,H., Gerritsen,M.E.,
            Goddard,A., Godowski,P.J., Grimaldi,J.C., Gurney,A.L., Hillan,K.J.,
            Kljavin,I.J., Mather,J.P., Pan,J.; Paoni,N.F., Roy,M.A.,
            Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
TITLE       Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
JOURNAL     Patent: US 6635468-A 17 21-OCT-2003;
FEATURES    Location/Qualifiers
source      1..960
            /organism="unknown"
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ORIGIN

Query Match       100.0%; Score 259; DB 6; Length 960;
Best Local Similarity 100.0%; Pred. No. 2.3e-58;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy    1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 60
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Db  644 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACCAGGGACACTCAGGAG 120
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Db  704 CTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACCAGGGACACTCAGGAG 763

Qy  121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGGACTGAGTAGAACTGAGAGTCGACGTG 180
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Db  764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGGACTGAGTAGAACTGAGAGTCGACGTG 823
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Qy  181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGGAGGCCGGAGGAAGGGGCCAGGCCTCAC 240
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Db  824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGGAGGCCGGAGGAAGGGGCCAGGCCTCAC 883

Qy  241 ATTCGTGGGGCTCCCTGAA 259
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Db  884 ATTCGTGGGGCTCCCTGAA 902


RESULT 5
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LOCUS       AX201328    960 bp   DNA      linear   PAT 30-AUG-2001
DEFINITION  Sequence 7 from Patent WO0153486.
ACCESSION   AX201328
VERSION     AX201328.1  GI:15391156
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Ashkenazi,A.J., Goddard,A., Godowski,P.J., Gurney,A.L.,
            Hillan,K.J., Marsters,S.A., Pan,J., Pitti,R.M., Roy,M.A., Smith,V.,
            Stone,D.M., Watanabe,C.K. and Wood,W.I.
TITLE       Compositions and methods for the treatment of tumour
JOURNAL     Patent: WO 0153486-A 7 26-JUL-2001;
            Genentech, Inc. (US)
FEATURES    Location/Qualifiers
source      1..960
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            /mol_type="unassigned DNA"
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ORIGIN

Query Match       100.0%; Score 259; DB 6; Length 960;
Best Local Similarity 100.0%; Pred. No. 2.3e-58;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy    1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 60
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Db  644 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACCAGGGACACTCAGGAG 120
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Db  704 CTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACCAGGGACACTCAGGAG 763

Qy  121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGGACTGAGTAGAACTGAGAGTCGACGTG 180
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Db  764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGGACTGAGTAGAACTGAGAGTCGACGTG 823

Qy  181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGGAGGCCGGAGGAAGGGGCCAGGCCTCAC 240
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Db  824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGGAGGCCGGAGGAAGGGGCCAGGCCTCAC 883

Qy  241 ATTCGTGGGGCTCCCTGAA 259
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Db  884 ATTCGTGGGGCTCCCTGAA 902


RESULT 6
AX697426
LOCUS       AX697426    960 bp   DNA      linear   PAT 02-APR-2003
DEFINITION  Sequence 17 from Patent WO0104311.
ACCESSION   AX697426
VERSION     AX697426.1  GI:29498554
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Ashkenazi,A.J., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
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Filvaroff,E., Fong,S., Gao,W.Q., Gerber,H., Gerritsen,M.E.,
Goddard,A., Godowski,P.J., Grimaldi,C.J., Gurney,A.L., Hillan,K.J.,
Klavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,
Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.

TITLE   Secretory and transmembrane polypeptides and nucleic acids encoding
              the same.
JOURNAL   Patent: WO 0104311-A 17 18-JAN-2001;
              Genentech Inc. (US)
FEATURES   Location/Qualifiers
     source   1..960
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                     /mol_type="unassigned DNA"
                     /db_xref="taxon:9606"
ORIGIN

Query Match   100.0%;   Score 259; DB 6; Length 960;
Best Local Similarity 100.0%;   Pred. No. 2.3e-58;
Matches   259; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA 60
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Db 644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 120
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Db 704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 763

Qy 121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAAGTGGAGGACAAGAGTCGACGTG 180
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Db 764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAAGTGGAGGACAAGAGTCGACGTG 823

Qy 181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
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Db 824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy 241 ATTCGTGGGGCTCCCTGAA 259
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Db 884 ATTCGTGGGGCTCCCTGAA 902

RESULT 7
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LOCUS   BD075381   960 bp   DNA   linear   PAT 27-AUG-2002
DEFINITION Secretory and transmembrane polypeptide and nucleic acid encoding
            the same.
ACCESSION   BD075381
VERSION   BD075381.1 GI:22620984
KEYWORDS   JP 2001516580-A/14.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Penica,D., Chen,J. and Yuan,J.
TITLE   Secretory and transmembrane polypeptide and nucleic acid encoding
            the same
JOURNAL   Patent: JP 2001516580-A 14 02-OCT-2001;
            GENENTECH INC
COMMENT   OS   Homo sapiens (human)
            PN   JP 2001516580-A/14
            PD   02-OCT-2001
            PF   16-SEP-1998 JP 2000511867
            PR   17-SEP-1997 US 60/059115,17-SEP-1997 US 60/059184 PR
            17-SEP-1997 US 60/059122,17-SEP-1997 US 60/059117 PR
            17-SEP-1997 US 60/059113,17-SEP-1997 US 60/059121 PR
            17-SEP-1997 US 60/059119,18-SEP-1997 US 60/059263 PR
            18-SEP-1997 US 60/059226,15-OCT-1997 US 60/062125 PR
            17-OCT-1997 US 60/062287,17-OCT-1997 US 60/062285 PR
            21-OCT-1997 US 60/063486,24-OCT-1997 US 60/062816 PR
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            21-NOV-1997 US 60/065364,24-NOV-1997 PR 60/066772 PR
            24-NOV-1997 US 60/066466,24-NOV-1997 PR 60/066770 PR
            25-NOV-1997 US 60/066511,24-NOV-1997 PR 60/066453 PR
            PI   WILLIAM I WOOD,AUSTIN L GURNEY,AUDLEY GODDARD,DIANE PENICA, PI
            JEAN CHEN,
            PI   JEAN YUAN;
            PC   C12N15/09,C07K14/47,C07K14/705,C07K16/18,C07K16/28,C07K19/00,
            PC   C12N1/19,
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            PC   C12N15/00,C12N5/00
            CC   Secretory and transmembrane polypeptide and nucleic acid CC
            encoding the same
            FH   Key   Location/Qualifiers
            FT   source   1..960
            FT   /organism='Homo sapiens (human)'.

FEATURES   Location/Qualifiers
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ORIGIN

Query Match   100.0%;   Score 259; DB 6; Length 960;
Best Local Similarity 100.0%;   Pred. No. 2.3e-58;
Matches   259; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA 60
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Db 644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 120
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Db 704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 763

Qy 121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAAGTGGAGGACAAGAGTCGACGTG 180
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Db 764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAAGTGGAGGACAAGAGTCGACGTG 823

Qy 181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
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Db 824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy 241 ATTCGTGGGGCTCCCTGAA 259
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Db 884 ATTCGTGGGGCTCCCTGAA 902

RESULT 8
BD172241
LOCUS   BD172241   960 bp   DNA   linear   PAT 18-FEB-2003
DEFINITION Secretory and transmembrane polypeptides and nucleic acids encoding
            the same.
ACCESSION   BD172241
VERSION   BD172241.1 GI:28413539
KEYWORDS   JP 2002223786-A/14.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and

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Qy     241 ATTCGTGGGGCTCCCTGAA 259
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Db     884 ATTCGTGGGGCTCCCTGAA 902

RESULT 9
BD172560
LOCUS       BD172560              960 bp    DNA      linear     PAT 18-FEB-2003
DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding
            the same.
ACCESSION   BD172560
VERSION     BD172560.1  GI:28413862
KEYWORDS    JP 2002238586-A/14.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
AUTHORS     Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
TITLE       Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
JOURNAL     Patent: JP 2002238586-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT     OS   Homo sapiens (human)
            PN   JP 2002238586-A/14
            PD   27-AUG-2002
            PF   18-DEC-2001 JP 2001385205
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            WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
            JIAN ZHENG,
            PI   JEAN YUAN
            PC   C12N15/09,C07K14/47,C07K16/18,C07K19/00,C12N1/19,C12N1/21, PC
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ORIGIN

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Db    644 TAACCCTGTGCTCAGGCACCTCTCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA 703

Qy     61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGACCCAGGGGACACTCAGGAG 120
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Qy    121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGACGTCGACGTG 180
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Db    764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGACGTCGACGTG 823

Qy    181 AGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGGGAGGGGCCTCAC 240
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ORIGIN   /db_xref="taxon:9606"

Query Match   100.0%;   Score 259; DB 6; Length 960;
Best Local Similarity 100.0%;   Pred. No. 2.3e-58;
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Qy  181 AGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGAGGAAGGGGCCAGGCCTCAC 240
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Db  824 AGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGAGGAAGGGGCCAGGCCTCAC 883

Qy  241 ATTCGTGGGGCTCCCTGAA 259
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Db  884 ATTCGTGGGGCTCCCTGAA 902
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DEFINITION Secreted and transmembrane polypeptides and nucleic acids encoding the same.
ACCESSION   BD172879
VERSION   BD172879.1 GI:28414185
KEYWORDS   JP 2002238587-A/14.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and Yuan,J.
TITLE   Secreted and transmembrane polypeptides and nucleic acids encoding the same
JOURNAL   Patent: JP 2002238587-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT   OS   Homo sapiens (human)
            PN   JP 2002238587-A/14
            PD   27-AUG-2002
            PF   18-DEC-2001 JP 2001385248
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24-NOV-1997 US   60/066772,24-NOV-1997 US   60/066466 PR
24-NOV-1997 US   60/066770,24-NOV-1997 US   60/066511 PR
24-NOV-1997 US   60/066453,25-NOV-1997 US   60/066840 PI
WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
JIAN ZHENG,
PI   JEAN YUAN
PC   C12N15/09,C07K14/47,C07K16/18,C12N1/19,C12N1/21,C12N5/10, PC
C12N15/02,
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(C12P21/02,C12R1:645),C12N15/00,C12N5/00,C12N15/00 CC   Secreted
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same
FH   Key   Location/Qualifiers
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ORIGIN

Query Match   100.0%;   Score 259; DB 6; Length 960;
Best Local Similarity 100.0%;   Pred. No. 2.3e-58;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy  241 ATTCGTGGGGCTCCCTGAA 259
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Db  884 ATTCGTGGGGCTCCCTGAA 902
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LOCUS   BD173198   960 bp   DNA   linear   PAT 18-FEB-2003
DEFINITION Secreted and transmembrane polypeptides and nucleic acids encoding the same.
ACCESSION   BD173198
VERSION   BD173198.1 GI:28414507
KEYWORDS   JP 2002238588-A/14.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
TITLE   Secreted and transmembrane polypeptides and nucleic acids encoding the same
JOURNAL   Patent: JP 2002238588-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT   OS   Homo sapiens (human)
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            PD   27-AUG-2002
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WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
JIAN ZHENG,
PI   JEAN YUAN
PC   C12N15/09,C07K16/18,C07K16/435,C07K16/18,(C12N1/19,C12R1:645),(C12N1/21,C12R1:19),  PC
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PC   C12P21/02/,C12P21/08,(C12N1/19,C12N1/21,C12R1:645),(C12N1/21,C12R1:19),
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(Right column)

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REFERENCE   1  (bases 1 to 960)
AUTHORS     Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
TITLE       Secretory and transmembrane polypeptide and nucleic acid encoding
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JOURNAL     Patent: JP 2002253280-A 14 10-SEP-2002;
            GENENTECH INC
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WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
JIAN ZHENG,
PI   JEAN YUAN
PC   C12N15/09,A61K45/00,A61P1/00,A61P13/12,A61P17/00,A61P17/06, PC
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PC   C07K19/00,
PC   C12N1/19,C12N1/21,C12N5/10//A61K38/00,A61K39/395,A61K39/395,
PC   A61P43/00,
PC   C12P21/08,(C12N1/19,C12R1:645),(C12N1/21,C12R1:19),(C12N5/10,
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PC   C12N15/00,C12N5/00,A61K37/02,(C12N5/00,C12R1:91) CC
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     encoding the same
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ORIGIN

Query Match           100.0%;   Score 259; DB 6;  Length 960;
Best Local Similarity 100.0%;   Pred. No. 2.3e-58;
Matches 259;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy     1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCATGA 60
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Qy  241  ATTCGTGGGGCTCCCTGAA  259
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VERSION   BD076397.1 GI:22622000
KEYWORDS   JP 2001519154-A/11.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
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             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 979)
  AUTHORS   Kato,S., Kimura,T., Sekine,S. and Kobayashi,M.
  TITLE   Human protein having transmembrane domain and DNA encoding the same
  JOURNAL   Patent: JP 2001519154-A 11 23-OCT-2001;
             SAGAMI CHEMICAL RESEARCH CENTER,PROTEGENE INC
COMMENT   OS   Homo sapiens (human)
             PN   JP 2001519154-A/11
             PD   23-OCT-2001
             PF   05-OCT-1998 JP 2000515001
             PI   SEISHI KATO,TOMOKO KIMURA,SHINGO SEKINE,MIDORI KOBAYASHI PC
             C12N5/09,C07K14/47,C12N5/10,C12N15/00,C12N5/00 CC   Human protein
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             and DNA encoding the
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ORIGIN

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RESULT 13
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LOCUS   AY358912   960 bp   mRNA   linear   PRI 03-OCT-2003
DEFINITION   Homo sapiens clone DNA34435 prostate stem cell A (UNQ206) mRNA,
             partial cds.
ACCESSION   AY358912
VERSION   AY358912.1 GI:37182941
KEYWORDS   FLI CDNA.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
  AUTHORS   Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
             Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B.,
             Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.E.,
             Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S.,
             Lee,J. Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C.,
             Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V.,
             Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieand,D., Woods,K.,
             Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
             Goddard,A., Wood,W.I. and Godowski,P.
  TITLE   The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
             Effort to Identify Novel Human Secreted and Transmembrane Proteins:
             A Bioinformatics Assessment
  JOURNAL   Genome Res. 13 (10), 2265-2270 (2003)
   PUBMED   12975309
REFERENCE   2 (bases 1 to 960)
  AUTHORS   Clark,H.F.
  TITLE   Direct Submission
  JOURNAL   Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
             Inc., 1 DNA Way, South San Francisco, CA 94080, USA
FEATURES   Location/Qualifiers
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ORIGIN

Query Match   100.0%; Score 259; DB 9; Length 960;
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  Matches 259;   Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy    241 ATTCGTGGGGCTCCCTGAA 259
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Db    910 ATTCGTGGGGCTCCCTGAA 928
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RESULT 15
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DEFINITION  Homo sapiens prostate stem-cell antigen, mRNA (cDNA clone MGC:22972
            IMAGE:4840974), complete cds.
ACCESSION   BC023582
VERSION     BC023582.2  GI:40225653
KEYWORDS    MGC.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 1015)
  AUTHORS   Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G.,
            Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D.,
            Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,
            Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F.,
            Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,
            Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L.,
            Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S.,
            Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J.,
            Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J.,
            McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S.,
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            Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D.,
            Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M.,
            Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smailus,D.E.,
            Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
  TITLE     Generation and initial analysis of more than 15,000 full-length
            human and mouse cDNA sequences
  JOURNAL   Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
REFERENCE   2  (bases 1 to 1015)
  AUTHORS   Strausberg,R.
  TITLE     Direct Submission
  JOURNAL   Submitted (05-FEB-2002) National Institutes of Health, Mammalian
            Gene Collection (MGC), Cancer Genomics Office, National Cancer
            Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
            USA
  REMARK    NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT     On Dec 19, 2003 this sequence version replaced gi:23958165.
            Contact: MGC help desk
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC/DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC),
            Gaithersburg, Maryland;
            Web site: http://www.nisc.nih.gov/
            Contact: nisc_mgc@nhgri.nih.gov
            Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
            Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
            Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Hagnighi,P.,
            Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
            Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
            McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
            Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
            Young,A., Zhang,L.-H. and Green,E.D.

            Clone distribution: MGC clone distribution information can be found
            through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
            Series: IRAL Plate: 33 Row: m Column: 19
            This clone was selected for full length sequencing because it
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                     /note="Vector: pOTB7"
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                     /codon_start=1
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ORIGIN

Query Match       100.0%;   Score 259;  DB 9;  Length 1015;
Best Local Similarity  100.0%;   Pred. No. 2.2e-58;
Matches   259;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

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            GenCore version 5.1.6
     Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:      September 18, 2004, 04:33:41 ; Search time 169.311 Seconds
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Scoring table:   IDENTITY_NUC
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Searched:        3373863 seqs, 212409041 residues

Total number of hits satisfying chosen parameters:     6747726

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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                 8: geneseqn2003bs:*
                 9: geneseqn2003cs:*
                10: geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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SUMMARIES

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2	259	100.0	259	2	AAV68611	Aav68611 Human PS1
3	259	100.0	758	2	AAZ24404	Aaz24404 Human bla
4	259	100.0	960	2	AAX52217	Aax52217 Protein P
5	259	100.0	960	3	ADC78337	Adc78337 Human PRO
6	259	100.0	960	4	AAF72375	Aaf72375 Human PRO
7	259	100.0	960	6	ABK40257	Abk40257 cDNA enco
8	259	100.0	960	7	ACA58909	Aca58909 Human PRO
9	259	100.0	960	7	ACA58306	Aca58306 cDNA enco
10	259	100.0	960	7	ACA60013	Aca60013 Human cDN
11	259	100.0	960	7	ACD07413	Acd07413 Novel hum
12	259	100.0	960	7	ABX71461	Abx71461 Human cDN
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14	259	100.0	960	7	ABX96030	Abx96030 Human sec
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16	259	100.0	960	7	ACD20018	Acd20018 Human sec
17	259	100.0	960	7	ACA54821	Aca54821 Novel hum
18	259	100.0	960	8	ACD19656	Acd19656 Human sec
19	259	100.0	960	8	ADB29222	Adb29222 Human sec
20	259	100.0	960	8	ADA18078	Ada18078 Human sec
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22	259	100.0	960	8	ACD82964	Acd82964 Human PRO
23	259	100.0	960	8	ADA16053	Ada16053 Human sec
24	259	100.0	960	8	ADA42198	Ada42198 Human sec
25	259	100.0	960	8	ACD23142	Acd23142 Human PRO
26	259	100.0	960	8	ADA16477	Ada16477 Human sec
27	259	100.0	960	8	ADA12906	Ada12906 Human sec
28	259	100.0	960	8	ADA41774	Ada41774 Human sec
29	259	100.0	960	8	ADA17121	Ada17121 Human sec
30	259	100.0	960	8	ADA42624	Ada42624 Human sec
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37	259	100.0	960	9	ADC18867	Adc18867 Human sec
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39	259	100.0	960	9	ADC29218	Adc29218 Human sec
40	259	100.0	960	9	ADC28749	Adc28749 Human sec
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ALIGNMENTS

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AC   AAV80394;
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DT   23-FEB-1999  (first entry)
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DE   Nucleotide sequence of UT116 gene-specific clone 2325070.
XX
KW   UT116; urinary tract; epitope; antigen; detection; diagnosing;
KW   monitoring; in vivo imaging; cancer; agonist; antibody; tumour;
KW   metastasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO9851824-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;   98WO-US009972.
XX
PR   15-MAY-1997;   97US-00856652.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Model PA, Cohen M, Colpitts TL, Friedman PN, Granados EN;
PI   Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L, Russell JC;
PI   Stroupe SD;
XX
DR   WPI; 1999-045237/04.
XX
PT   New method for detecting diseases of the urinary tract - comprises use of
PT   a UT116 polynucleotide, protein or antibodies, used for preventing and
PT   treating urinary tract infections and cancer.
XX
PS   Claim 1; Fig 1A-C; 113pp; English.
XX
CC   Sequences AAV80386 to AAV80396 represent partially overlapping nucleotide
CC   sequences of the UT116 gene-specific clones derived from urinary tract
CC   tissue. The invention relates to a method of detecting the presence of a
CC   target UT116 polynucleotide in a test sample using these UT116-specific
CC   sequences. Host cells transfected with an expression vector containing
CC   the UT116 gene can be used to produce a UT116 polypeptide recombinantly.
CC   This polypeptide has at least one UT116 epitope which can be used in a
CC   method for detecting UT116 antigen in a test sample. The polynucleotides
```

CC   and polypeptides are useful for detecting, diagnosing, monitoring,
CC   staging, prognosticating, in vivo imaging, preventing, treating or
CC   determining the predisposition of a subject to diseases and conditions of
CC   the urinary tract, such as urinary tract cancer. Antibodies specifically
CC   binding to an epitope of UTI16 antigen, and agonists are useful for
CC   treating urinary tract diseases, tumours and metastases
XX
SQ   Sequence 259 BP; 54 A; 76 C; 84 G; 45 T; 0 U; 0 Other;

Query Match   100.0%; Score 259; DB 2; Length 259;
Best Local Similarity   100.0%; Pred. No. 5.6e-61;
Matches 259; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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RESULT 2
AAV68611
ID   AAV68611 standard; cDNA; 259 BP.
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AC   AAV68611;
XX
DT   16-MAR-1999 (first entry)
XX
DE   Human PS116 EST clone 2325070.
XX
KW   Human; expressed sequence tag; EST; prostate disease; diagnosis; tumour;
KW   detection; therapy; prostate cancer; metastasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO951805-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998; 98WO-US010041.
XX
PR   15-MAY-1997; 97US-00856653.,
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PA   (ABBO) ABBOTT LAB.
XX
PI   Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Gordon J;
PI   Granados EN, Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L;
PI   Russell JC, Stroupe SD;
XX
DR   WPI; 1999-045234/04.
XX
PT   New method for detecting diseases of the prostate - comprises use of a
PT   PS116 polynucleotide, protein or antibodies, useful for preventing and
PT   treating prostate infections and cancer.
XX
PS   Claim 1; Page 93; 118pp; English.
XX
CC   This sequence represents an expressed sequence tag (EST) clone of the
CC   PS116 gene isolated from a human prostate tissue library. This sequence
CC   can be used in the method of the invention for detecting a target PS116
CC   polynucleotide (PN), that comprises: contacting a sample with at least 1
CC   PS116-specific PN or complement; and detecting the target PS116 PN, where
CC   the specific PN has at least 50% identity with this sequence. The PNs,
CC   PS116 polypeptides or PS116 amplicons are used to detect prostate
CC   disease. Antibodies (ABs) against PS116 are used in assay kits to detect
CC   PS116 antigen or anti-PS116 Ab, and the Abs are preferably attached to a
CC   solid phase. The polypeptides are used for detecting PS116-specific Abs
CC   in a sample, and for producing Abs after immunising a subject. Plasmids
CC   encoding PS116 epitopes can also be administered to a subject to obtain
CC   Abs. The cDNAs and polypeptides are useful for detecting, diagnosing,
CC   staging, monitoring, prognosticating, in vivo imaging, preventing,
CC   treating or determining the predisposition of a subject to diseases and
CC   conditions of the prostate, such as prostate cancer. The Abs and agonists
CC   or inhibitors are useful for treating prostate diseases, tumours and
CC   metastases
XX
SQ   Sequence 259 BP; 54 A; 76 C; 84 G; 45 T; 0 U; 0 Other;

Query Match   100.0%; Score 259; DB 2; Length 259;
Best Local Similarity   100.0%; Pred. No. 5.6e-61;
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Qy  241 ATTCGTGGGGGCTCCCTGAA 259
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Db  241 ATTCGTGGGGGCTCCCTGAA 259
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RESULT 3
AA224404
ID   AA224404 standard; cDNA; 758 BP.
XX
AC   AA224404;
XX
DT   14-FEB-2000 (first entry)
XX
DE   Human bladder tumour cDNA library derived EST 16.
XX
KW   Expressed sequence tag; human; bladder; tumour; cancer; cytostatic;
KW   treatment; gene therapy; EST; ss.
XX
OS   Homo sapiens.
XX
PN   DE19818619-A1.
XX
PD   28-OCT-1999.
XX
PF   21-APR-1998; 98DE-01018619.
XX
PR   21-APR-1998; 98DE-01018619.
XX
PA   (META-) METAGEN GES GENOMFORSCHUNG MBH.
XX
PI   Rosenthal A, Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E;
XX
DR   WPI; 1999-612028/53.
XX

PT   New nucleic acid sequences expressed in bladder tumor tissue, and derived
PT   polypeptides, for treatment of bladder tumor and identification of
PT   therapeutic agents.
XX
PS   Claim 3; Page 72; 132pp; German.
XX
CC   This invention describes novel polypeptide fragments (I) and the
CC   polynucleotides (II) that encode them that are highly expressed in a
CC   human bladder tumour and which have cytostatic activity. (II) are used
CC   for recombinant expression of (I) and to isolate complete genes. (I) are
CC   used to identify agents suitable for treatment of bladder cancer, to
CC   directly treat this form of cancer (including expression from gene
CC   therapy vectors) or are used in a preparation for cancer treatment. (I)
CC   is also used for the generation of specific antibodies. (II) are
CC   identified by assembling ESTs (expressed sequence tags) from a particular
CC   tissue type before comparison of expression patterns. This allows a
CC   significantly longer fragment of the gene to be revealed, and therefore
CC   reduces the number of failures associated with the fact that ESTs from
CC   different libraries may represent different parts of the same unknown
CC   gene, distorting the estimated frequency of occurrence in a particular
CC   tissue. AAZ43260-Z43309 represent expressed sequence tag (EST) fragments
CC   isolated from a human bladder tumour cDNA library which encode the
CC   proteins represented in AAY66143-Y66198
XX
SQ   Sequence 758 BP; 147 A; 261 C; 212 G; 138 T; 0 U; 0 Other;

Query Match   100.0%;   Score 259;   DB 2;   Length 758;
Best Local Similarity   100.0%;   Pred. No. 7.1e-61;
Matches 259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA 60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   437 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA 496

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACCAGGGACTCCAGGAG 120
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   497 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACCAGGGACTCCAGGAG 556

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGAGCAAGAGTCGACGTG 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   557 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGAGCAAGAGTCGACGTG 616

Qy   181 AGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   617 AGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 676

Qy   241 ATTCGTGGGGCTCCCTGAA 259
         |||||||||||||||||||
Db   677 ATTCGTGGGGCTCCCTGAA 695

RESULT 4
AAX52217
ID   AAX52217 standard; DNA; 960 BP.
XX
AC   AAX52217;
XX
DT   25-JUN-1999   (first entry)
XX
DE   Protein PRO232 cDNA clone DNA34435-1140.
XX
KW   Secreted protein; transmembrane protein; human; enterocolitis;
KW   Zollinger-Ellison syndrome; gastrointestinal ulceration;
KW   congenital microvillus atrophy; skin disease; cell growth;
KW   abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW   Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
KW   dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;
KW   wound healing; tissue repair; ss.
XX
OS   Homo sapiens.
XX
PN   WO9914328-A2.
XX

PD   25-MAR-1999.
XX
PF   16-SEP-1998;   98WO-US019330.
XX
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0062125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062814P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0065186P.
PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0065693P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0066364P.
PR   24-NOV-1997;   97US-0066453P.
PR   24-NOV-1997;   97US-0066466P.
PR   24-NOV-1997;   97US-0066511P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   25-NOV-1997;   97US-0066840P.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
XX
DR   WPI; 1999-229533/19.
DR   P-PSDB; AAY13347.
XX
PT   New isolated human genes and polypeptides used in, e.g. treatment of
PT   gastrointestinal ulceration.
XX
PS   Claim 2; Fig 8; 320pp; English.
XX
CC   AAX52213-74 encode secreted and transmembrane human proteins, and are
CC   obtained from cDNA libraries, prepared from fetal lung, fetal kidney,
CC   fetal brain, fetal liver and fetal retina. The encoded polypeptides have
CC   specific uses based on their homology to known polypeptides, e.g. PRO211
CC   and PRO217 can be used for disorders associated with the preservation and
CC   maintenance of gastrointestinal mucosa and the repair of acute and

XX
PA   (GETH) GENENTECH INC.
XX
PI   Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;
PI   Yuan J;
XX
DR   WPI; 2000-271434/23.
DR   P-PSDB; ADC78338.
XX
PT   Novel nucleic acids encoding secreted and transmembrane polypeptides with
PT   homology, e.g. to growth and cancer-associated antigens.
XX
PS   Claim 2; SEQ ID NO 17; 355pp; English.
XX
CC   The invention relates to a novel nucleic acid encoding a PRO polypeptide.
CC   The polypeptides and polynucleotides of the invention may be useful as
CC   research tools and as therapeutics for treating enterocolitis, Zollinger-
CC   Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
CC   Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal
CC   scarring and wound healing, nerve repair, thrombosis, bone and/or
CC   cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
CC   sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
CC   infertility, premature aging, AIDS, diabetes complications and stroke.
CC   The molecules may also be utilised during gene therapy procedures and
CC   transgenic animal production. The current sequence is that of the human
CC   PRO cDNA of the invention.
XX
SQ   Sequence 960 BP; 182 A; 327 C; 274 G; 177 T; 0 U; 0 Other;

```
Query Match             100.0%;  Score 259;  DB 3;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 7.4e-61;
Matches  259;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 60
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 703

Qy       61 CTTGAGCCAGGTCTGTCGTGGTCTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      704 CTTGAGCCAGGTCTGTCGTGGTCTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 763

Qy      121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGACGTGACGTG 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGACGTGACGTG 823

Qy      181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAGGAAGGGGCCAGGCCTCAC 240
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAGGAAGGGGCCAGGCCTCAC 883

Qy      241 ATTCGTGGGGCTCCCTGAA 259
            |||||||||||||||||||
Db      884 ATTCGTGGGGCTCCCTGAA 902
```

RESULT 6
AAF72375
ID   AAF72375 standard; cDNA; 960 BP.
XX
AC   AAF72375;
XX
DT   24-APR-2001 (first entry)
XX
DE   Human PRO232 cDNA.
XX
KW   Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
KW   antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
KW   antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
KW   antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes;
KW   ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
KW   ischaemia; inflammation; expressed sequence tag; EST; ss.
XX
OS   Homo sapiens.
XX

CC   chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome,
CC   gastrointestinal ulceration and congenital microvillus atrophy), skin
CC   diseases associated with abnormal keratinocyte differentiation (e.g.
CC   psoriasis, epithelial cancers such as lung squamous cell carcinoma of the
CC   vulva and gliomas), potent effects on cell growth and development,
CC   diseases related to growth or survival of nerve cells including
CC   Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer.
CC   PRO265 can be used as for fibromodulin, e.g. for reducing dermal
CC   scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may
CC   be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can
CC   be used as an anti-thrombotic agent; PRO287 polypeptides and portions may
CC   have therapeutic applications in wound healing and tissue repair; PRO317
CC   can be used for treating problems of the kidney, uterus, endometrium,
CC   blood vessels, or related tissue, e.g. in the heart of genital tract
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

```
Query Match             100.0%;  Score 259;  DB 2;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 7.4e-61;
Matches  259;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 60
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 703

Qy       61 CTTGAGCCAGGTCTGTCGTGGTCTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      704 CTTGAGCCAGGTCTGTCGTGGTCTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 763

Qy      121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGACGTGACGTG 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGACGTGACGTG 823

Qy      181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAGGAAGGGGCCAGGCCTCAC 240
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAGGAAGGGGCCAGGCCTCAC 883

Qy      241 ATTCGTGGGGCTCCCTGAA 259
            |||||||||||||||||||
Db      884 ATTCGTGGGGCTCCCTGAA 902
```

RESULT 5
ADC78337
ID   ADC78337 standard; cDNA; 960 BP.
XX
AC   ADC78337;
XX
DT   01-JAN-2004 (first entry)
XX
DE   Human PRO232 cDNA.
XX
KW   antiinflamatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian;
KW   nootropic; neuroprotective; vasotropic; chemotaxic; angiogenic;
KW   neurotrophic; osteopathic; antiasthmatic; antiarthritic; antirheumatic;
KW   antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective;
KW   thrombolytic; immunomodulator; antidiabetic; enterocolitis; Zollinger-Ellison syndrome;
KW   gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;
KW   Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;
KW   nerve repair; thrombosis; bone; cartilage formation; angiogenesis;
KW   asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;
KW   atherosclerosis; cardiac injury; infertility; premature aging; AIDS;
KW   diabetes; stroke; gene therapy; transgenic; PRO; human; ss; gene.
XX
OS   Homo sapiens.
XX
PN   WO200015796-A2.
XX
PD   23-MAR-2000.
XX
PF   15-SEP-1999; 99WO-US015090.
XX
PR   16-SEP-1998; 98WO-US019330.

```
PN   WO200104311-A1.
XX
PD   18-JAN-2001.
XX
PF   22-FEB-2000; 2000WO-US004414.
XX
PR   07-JUL-1999;   99US-0143048P.
PR   26-JUL-1999;   99US-0145698P.
PR   28-JUL-1999;   99US-0146222P.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DI, Ferrara N;
PI   Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI   Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin IJ;
PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI   Williams PM, Wood WI;
XX
DR   WPI; 2001-081051/09.
XX
PT   Sixty one nucleic acids encoding PRO polypeptides which are useful in the
PT   treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous
PT   cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
PT   disease).
XX
PS   Claim 2; Fig 8; 393pp; English.
XX
CC   The present sequence is an EST used to isolate one of sixty one nucleic
CC   acids encoding novel secreted and transmembrane PRO polypeptides. The PRO
CC   polypeptides are useful for treating skin diseases (e.g. psoriasis),
CC   cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders
CC   (e.g. enterocolitis), neurodegenerative diseases (e.g. Alzheimer's
CC   disease, Parkinson's disease), wound repair, cardiovascular disorders
CC   (e.g. endometrial bleeding angiogenesis, ischaemias such as coronary
CC   ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma,
CC   rheumatoid arthritis, multiple sclerosis), infertility, AIDS and diabetes
CC   and retinal disorders such as retinitis pigmentosum. The PRO nucleic
CC   acids have applications in molecular biology, including use as
CC   hybridization probes, and in chromosome and gene mapping
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match       100.0%;  Score 259; DB 4; Length 960;
Best Local Similarity   100.0%;  Pred. No. 7.4e-61;
Matches  259;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy     1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 703

Qy    61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGACCCAGCAGGGGACCAGGCACTCAGGAG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||
Db   704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGACCCAGCAGGGGACACGGCACTCAGGAG 763

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGGAGGACTGGAGGACAAGAGTCGACCTG 180
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||| ||
Db   764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGGAGGACTGGAGGACAAGAGTCGACGTG 823

Qy   181 AGTTCCTGGGAGTCTTCCAGAGATGGGGCCTGGGAGGCGCCTGGAGGAAGGGGCCAGGCCTCAC
           |||||||||||||||||||||||||||||||||||
Db   824 AGTTCCTGGGAGTCTTCCAGAGATGGGGCCTGGGAGGCCTGGGAGGAAGGGGCCAGGCCTCAC 883

Qy   241 ATTCGTGGGGCTCCCTGAA 259
           |||||||||||||||||||
Db   884 ATTCGTGGGGCTCCCTGAA 902


RESULT 7
ABK40257
ID   ABK40257 standard; cDNA; 960 BP.
XX
AC   ABK40257;
XX
DT   15-JUL-2002 (first entry)
XX
DE   cDNA encoding human PRO232 polypeptide.
XX
KW   Human; PRO; benign tumour; malignant tumour; lymphoid malignancy;
KW   leukaemia; neuronal disorder; stromal disorder; blastocoelic disorder;
KW   inflammatory disorder; immune disorder; angiogenic disorder;
KW   gene therapy; cytostatic; neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   WO200153486-A1.
XX
PD   26-JUL-2001.
XX
PF   11-FEB-2000; 2000WO-US003565.
XX
PR   08-MAR-1999;   99WO-US005028.
PR   11-MAR-1999;   99US-0123972P.
PR   11-MAY-1999;   99US-0133459P.
PR   02-JUN-1999;   99WO-US011252.
PR   22-JUN-1999;   99US-0140650P.
PR   22-JUN-1999;   99US-0140653P.
PR   20-JUL-1999;   99US-0144758P.
PR   26-JUL-1999;   99US-0145698P.
PR   28-JUL-1999;   99US-0146222P.
PR   17-AUG-1999;   99US-0149395P.
PR   31-AUG-1999;   99US-0151689P.
PR   01-SEP-1999;   99WO-US020111.
PR   15-SEP-1999;   99WO-US021090.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   01-DEC-1999;   99WO-US028634.
PR   05-JAN-2000;   2000WO-US000219.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Hillan KJ;
PI   Marsters SA, Pan J, Pitti RM, Roy MA, Smith V, Stone DM;
PI   Watanabe CK, Wood WI;
XX
DR   WPI; 2002-205557/26.
DR   P-PSDB; AAU86131.
XX
PT   Thirty five nucleic acids encoding PRO polypeptides, useful for treating
PT   benign or malignant tumors, leukemias and lymphoid malignancies,
PT   inflammatory, angiogenic and immunologic disorders.
XX
PS   Claim 50; Fig 7; 302pp; English.
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides and the polynucleotide sequences encoding them. The PRO
CC   polypeptides, agonists, antagonists or anti-PRO antibodies are useful for
CC   treating benign or malignant tumours (e.g. renal, kidney, bladder,
CC   breast, etc), leukaemias and lymphoid malignancies, other disorders such
CC   as neuronal, glial, astrocytal, hypothalamic, glandular, macrophagal,
CC   stromal and blastocoelic disorders, inflammatory, immune and angiogenic
CC   disorders. The polynucleotide sequences are also useful in gene therapy.
CC   ABK40254-ABK40288 encode for the human PRO polypeptides of the invention
XX
```

SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   100.0%;   Score 259; DB 6; Length 960;
Best Local Similarity 100.0%;   Pred. No. 7.4e-61;
Matches   259; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 TAACCCTGTGTCAGGCACCTCTTCCCTGCCAGGAAGCCTTCCCTGCCCAATCTATGA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGTGTCAGGCACCTCTTCCCTGCCAGGAAGCCTTCCCTGCCCAATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCAGGCAGGGACAGGCACTCAGGAG 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCAGGCAGGGACAGGCACTCAGGAG 763

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGCTGAGTAGAACTGGAGGACAAGAGTCGACGTG 180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   764 GGCCCAGTAAAGGCTGAGATGAAGCTGAGTAGAACTGGAGGACAAGAGTCGACGTG 823

Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGGGGCCAGGCCTCAC 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGGGGCCAGGCCTCAC 883

Qy   241 ATTCGTGGGGCTCCCTGAA 259
          |||||||||||||||||||
Db   884 ATTCGTGGGGCTCCCTGAA 902

RESULT 8
ACA58909
ID   ACA58909 standard; cDNA; 960 BP.
XX
AC   ACA58909;
XX
DT   16-JUN-2003 (first entry)
XX
DE   Human PRO polynucleotide #4.
XX
KW   Human; PRO; gene; ss; secreted polypeptide; transmembrane polypeptide;
KW   pathological disorder; cardiac insufficiency disorder; protein secretion;
KW   pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
KW   skin disease; keratinocyte differentiation; epithelial cancer; tumour;
KW   lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
KW   cytostatic; cardiant; endocrine; antidiabetic; gastrointestinal;
KW   antiulcer; dermatological; vulnerary.
XX
OS   Homo sapiens.
XX
PN   US200146709-A1.
XX
PD   10-OCT-2002.
XX
PF   18-JUL-2001; 2001US-00909088.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
PR   17-SEP-1997; 97US-0059121P.
PR   17-SEP-1997; 97US-0059122P.
PR   17-SEP-1997; 97US-0059184P.
PR   18-SEP-1997; 97US-0059263P.
PR   18-SEP-1997; 97US-0059266P.
PR   15-OCT-1997; 97US-0062125P.
PR   17-OCT-1997; 97US-0062285P.
PR   17-OCT-1997; 97US-0062287P.
PR   21-OCT-1997; 97US-0063486P.
PR   24-OCT-1997; 97US-0062814P.
PR   24-OCT-1997; 97US-0062816P.
PR   24-OCT-1997; 97US-0063045P.
PR   24-OCT-1997; 97US-0063120P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063128P.
PR   27-OCT-1997; 97US-0063327P.
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PR   29-OCT-1997; 97US-0063732P.
PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064248P.
PR   07-NOV-1997; 97US-0064809P.
PR   12-NOV-1997; 97US-0065186P.
PR   17-NOV-1997; 97US-0065846P.
PR   18-NOV-1997; 97US-0065693P.
PR   21-NOV-1997; 97US-0066120P.
PR   21-NOV-1997; 97US-0066364P.
PR   24-NOV-1997; 97US-0066453P.
PR   24-NOV-1997; 97US-0066466P.
PR   24-NOV-1997; 97US-0066651P.
PR   24-NOV-1997; 97US-0066770P.
PR   24-NOV-1997; 97US-0066772P.
PR   10-SEP-1998; 98WO-US018824.
PR   14-SEP-1998; 98WO-US019177.
PR   16-SEP-1998; 98WO-US019330.
PR   17-SEP-1998; 98WO-US019437.
PR   01-DEC-1998; 98WO-US025108.
PR   08-SEP-1999; 99WO-US020594.
PR   13-SEP-1999; 99WO-US020944.
PR   15-SEP-1999; 99WO-US021090.
PR   15-SEP-1999; 99WO-US021547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
PR   30-NOV-1999; 99WO-US028313.
PR   01-DEC-1999; 99WO-US028301.
PR   02-DEC-1999; 99WO-US028564.
PR   02-DEC-1999; 99WO-US028565.
PR   16-DEC-1999; 99WO-US030095.
PR   20-DEC-1999; 99WO-US030911.
PR   20-DEC-1999; 99WO-US030999.
PR   05-JAN-2000; 2000WO-US000219.
PR   11-FEB-2000; 2000WO-US000565.
PR   22-FEB-2000; 2000WO-US004414.
PR   24-FEB-2000; 2000WO-US005004.
PR   02-MAR-2000; 2000WO-US005841.
PR   20-MAR-2000; 2000WO-US007377.
PR   30-MAR-2000; 2000WO-US008439.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   28-JUL-2000; 2000WO-US020710.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00665350.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-328338/31.
DR   P-PSDB; ABU71593.
XX
PT   Isolated nucleic acid useful for e.g., treating pathological disorders
PT   encodes a secreted or transmembrane protein.

```
XX
PS   Claim 2; Fig 8; 473pp; English.
XX
CC   The invention relates to human PRO polypeptides (secreted or
CC   transmembrane polypeptides) and the polynucleotides encoding them. The
CC   PRO polypeptides and polynucleotides can be used in treating pathological
CC   disorders and tumours, in therapeutic treatment of cardiac insufficiency
CC   disorders and in therapeutic treatment of disorders involving protein
CC   secretion by the pancreas, including diabetes. They can also be used in
CC   treating disorders associated with the preservation and maintenance of
CC   gastrointestinal mucosa and the repair of acute and chronic mucosal
CC   lesions, and skin diseases associated with abnormal keratinocyte
CC   differentiation (e.g., psoriases, epithelial cancers such as lung
CC   squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).
CC   The sequences can be used as molecular markers for protein
CC   electrophoresis purposes and can be utilised in protein-protein binding
CC   assays, biochemical screening assays, immunoassays and cell-based assays.
CC   This sequence represents a human PRO polynucleotide of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             100.0%;  Score 259;  DB 7;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 7.4e-61;
Matches  259;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy       1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA  60
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Db     644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 703

Qy      61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGACCCAGCAGGGACCAGGCACTCAGGAG 120
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Db     704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGACCCAGCAGGGACCAGGCACTCAGGAG 763

Qy     121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 180
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Db     764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 823

Qy     181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy     241 ATTGCTGGGGCTCCTGAA 259
           ||||||||||||||||||
Db     884 ATTCCTGGGGCTCCTGAA 902

RESULT 9
ACA58306
ID   ACA58306 standard; cDNA; 960 BP.
XX
AC   ACA58306;
XX
DT   10-JUN-2003 (first entry)
XX
DE   cDNA encoding human PRO polypeptide #4.
XX
KW   Human; secreted and transmembrane protein; PRO polypeptide; cancer;
KW   Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic;
KW   neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2002192659-A1.
XX
PD   19-DEC-2002.
XX
PF   10-JUL-2001; 2001US-00902853.
XX
PR   17-SEP-1997;    97US-0059113P.
PR   17-SEP-1997;    97US-0059115P.
PR   17-SEP-1997;    97US-0059117P.
PR   17-SEP-1997;    97US-0059119P.
PR   17-SEP-1997;    97US-0059121P.
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PR   17-SEP-1997;    97US-0059122P.
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PR   18-SEP-1997;    97US-0059263P.
PR   18-SEP-1997;    97US-0059266P.
PR   15-OCT-1997;    97US-0062125P.
PR   17-OCT-1997;    97US-0062285P.
PR   17-OCT-1997;    97US-0062287P.
PR   21-OCT-1997;    97US-0063486P.
PR   24-OCT-1997;    97US-0062814P.
PR   24-OCT-1997;    97US-0062816P.
PR   24-OCT-1997;    97US-0063045P.
PR   24-OCT-1997;    97US-0063120P.
PR   24-OCT-1997;    97US-0063121P.
PR   24-OCT-1997;    97US-0063127P.
PR   24-OCT-1997;    97US-0063128P.
PR   27-OCT-1997;    97US-0063327P.
PR   27-OCT-1997;    97US-0063329P.
PR   28-OCT-1997;    97US-0063541P.
PR   28-OCT-1997;    97US-0063542P.
PR   28-OCT-1997;    97US-0063544P.
PR   28-OCT-1997;    97US-0063549P.
PR   28-OCT-1997;    97US-0063550P.
PR   28-OCT-1997;    97US-0063564P.
PR   29-OCT-1997;    97US-0063435P.
PR   29-OCT-1997;    97US-0063704P.
PR   29-OCT-1997;    97US-0063732P.
PR   29-OCT-1997;    97US-0063734P.
PR   29-OCT-1997;    97US-0063735P.
PR   29-OCT-1997;    97US-0063738P.
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PR   31-OCT-1997;    97US-0063870P.
PR   31-OCT-1997;    97US-0064103P.
PR   03-NOV-1997;    97US-0064248P.
PR   07-NOV-1997;    97US-0064809P.
PR   12-NOV-1997;    97US-0065186P.
PR   17-NOV-1997;    97US-0065846P.
PR   18-NOV-1997;    97US-0065693P.
PR   21-NOV-1997;    97US-0066120P.
PR   21-NOV-1997;    97US-0066364P.
PR   24-NOV-1997;    97US-0064453P.
PR   24-NOV-1997;    97US-0064466P.
PR   24-NOV-1997;    97US-0066511P.
PR   24-NOV-1997;    97US-0066770P.
PR   24-NOV-1997;    97US-0066772P.
PR   10-SEP-1998;    98WO-US018824.
PR   14-SEP-1998;    98WO-US019177.
PR   16-SEP-1998;    98WO-US019330.
PR   17-SEP-1998;    98WO-US019437.
PR   01-DEC-1998;    98WO-US025108.
PR   08-SEP-1999;    99WO-US020594.
PR   13-SEP-1999;    99WO-US020944.
PR   15-SEP-1999;    99WO-US021090.
PR   15-SEP-1999;    99WO-US021547.
PR   05-OCT-1999;    99WO-US023089.
PR   29-NOV-1999;    99WO-US028214.
PR   30-NOV-1999;    99WO-US028313.
PR   01-DEC-1999;    99WO-US028301.
PR   02-DEC-1999;    99WO-US028564.
PR   02-DEC-1999;    99WO-US028565.
PR   16-DEC-1999;    99WO-US030095.
PR   20-DEC-1999;    99WO-US030911.
PR   20-DEC-1999;    99WO-US030999.
PR   05-JAN-2000;    2000WO-US000219.
PR   11-FEB-2000;    2000WO-US003565.
PR   22-FEB-2000;    2000WO-US004414.
PR   24-FEB-2000;    2000WO-US005004.
PR   02-MAR-2000;    2000WO-US005841.
PR   20-MAR-2000;    2000WO-US007377.
PR   30-MAR-2000;    2000WO-US008439.
PR   22-MAY-2000;    2000WO-US014042.
PR   02-JUN-2000;    2000WO-US015264.
PR   28-JUL-2000;    2000WO-US020710.
PR   24-AUG-2000;    2000WO-US023328.
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```
PR   18-SEP-2000; 2000US-00665350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-361832/34.
DR   P-PSDB;.ABU71448.
XX
PT   New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or
PT   PRO1868, useful in molecular biology, chromosome and gene mapping, in
PT   generating antisense RNA and DNA, and in gene therapy.
XX
PS   Claim 2; Fig 8; 474pp; English.
XX
CC   The present invention relates to the isolation of novel human secreted
CC   and transmembrane proteins (PRO polypeptides), and the polynucleotide
CC   sequences encoding them. The polynucleotide sequences are useful in
CC   molecular biology, as hybridisation probes, in chromosome and gene
CC   mapping, in generating antisense RNA and DNA, and in gene therapy. The
CC   polynucleotide sequences may also be used in preparing PRO polypeptides
CC   by recombinant techniques, and in generating either transgenic animals or
CC   knock-out animals which, in turn, are useful in the development and
CC   screening of therapeutically useful reagents. The PRO polypeptides or
CC   their antibodies are useful in preparing a medicament for treating a
CC   condition responsive to the polypeptide or antibody, such as cancer,
CC   Alzheimer's disease or ischaemia, and in various diagnostic assays. The
CC   present sequence encodes a human PRO polypeptide of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

     Query Match             100.0%;  Score 259;  DB 7;  Length 960;
     Best Local Similarity   100.0%;  Pred. No. 7.4e-61;
     Matches  259;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy        1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAGAGCCTTCCCTGCCACCCATCTATGA 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      644 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAGAGCCTTCCCTGCCACCCATCTATGA 703

Qy       61 CTTGAGCCAGTCTCGTCCGTGGTGTCCCCGCACCCAGCAGGGGACACGGCACTCAGGAG 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      704 CTTGAGCCAGTCTCGTCCGTGGTGTCCCCGCACCCAGCAGGGGACACGGCACTCAGGAG 763

Qy      121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGACGAGACAAGAGTCGACGTG 180
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Db      764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGACGAGACAAGAGTCGACGTG 823

Qy      181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCCCTCAC 240
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy      241 ATTCGTGGGGCTCCCTGAA 259
            |||||||||||||||||||
Db      884 ATTCGTGGGGCTCCCTGAA 902


RESULT 10
ACA60013
ID   ACA60013 standard; cDNA; 960 BP.
XX
AC   ACA60013;
XX
DT   12-JUN-2003 (first entry)
XX
DE   Human cDNA for secreted/transmembrane protein PRO232.
XX
KW   Human; ss; gene; secreted protein; transmembrane protein; PRO;
KW   gene therapy; chromosome identification; chromosome marker.
XX
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OS   Homo sapiens.
XX
PN   US2003003530-A1.
XX
PD   02-JAN-2003.
XX
PF   11-JUL-2001; 2001US-00904011.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
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PR   24-OCT-1997; 97US-0062814P.
PR   24-OCT-1997; 97US-0062816P.
PR   24-OCT-1997; 97US-0063045P.
PR   24-OCT-1997; 97US-0063120P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063128P.
PR   27-OCT-1997; 97US-0063327P.
PR   27-OCT-1997; 97US-0063329P.
PR   28-OCT-1997; 97US-0063541P.
PR   28-OCT-1997; 97US-0063542P.
PR   28-OCT-1997; 97US-0063544P.
PR   28-OCT-1997; 97US-0063549P.
PR   28-OCT-1997; 97US-0063550P.
PR   28-OCT-1997; 97US-0063564P.
PR   29-OCT-1997; 97US-0063435P.
PR   29-OCT-1997; 97US-0063704P.
PR   29-OCT-1997; 97US-0063732P.
PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064248P.
PR   07-NOV-1997; 97US-0064809P.
PR   12-NOV-1997; 97US-0065186P.
PR   17-NOV-1997; 97US-0065846P.
PR   18-NOV-1997; 97US-0065693P.
PR   21-NOV-1997; 97US-0066120P.
PR   21-NOV-1997; 97US-0066364P.
PR   24-NOV-1997; 97US-0066453P.
PR   24-NOV-1997; 97US-0066466P.
PR   24-NOV-1997; 97US-0066511P.
PR   24-NOV-1997; 97US-0066770P.
PR   24-NOV-1997; 97US-0066772P.
PR   10-SEP-1998; 98WO-US018824.
PR   14-SEP-1998; 98WO-US019177.
PR   16-SEP-1998; 98WO-US019330.
PR   17-SEP-1998; 98WO-US019437.
PR   01-DEC-1998; 98WO-US025108.
PR   08-SEP-1999; 99WO-US020594.
PR   13-SEP-1999; 99WO-US020944.
PR   15-SEP-1999; 99WO-US021090.
PR   15-SEP-1999; 99WO-US021547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
PR   30-NOV-1999; 99WO-US028313.
PR   01-DEC-1999; 99WO-US028301.
PR   02-DEC-1999; 99WO-US028564.
PR   02-DEC-1999; 99WO-US028565.
PR   16-DEC-1999; 99WO-US030095.
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Db   704 CTTGAGCCAGTCTCGTCCTGGTGTCCCCGACACCCAGCAGGGACAGGCACTCAGGAG 763
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Qy   121 GGCCCAGTAAAGGCTGAGATGGACTGAGTAGGAACTGGAGGACAAGAGTCGACGTG 180
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Db   764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGGAACTGGAGGACAAGAGTCGACGTG 823

Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCCAGCCTCAC 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCCAGCCTCAC 883

Qy   241 ATTCGTGGGGCTCCCTGAA 259
         |||||||||||||||||||
Db   884 ATTCGTGGGGCTCCCTGAA 902


RESULT 11
ACD07413
ID   ACD07413 standard; cDNA; 960 BP.
XX
AC   ACD07413;
XX
DT   07-AUG-2003  (first entry)
XX
DE   Novel human secreted and transmembrane protein PRO232 cDNA.
XX
KW   Human; secreted and transmembrane protein; PRO; pharmaceutical;
KW   diagnostic; biosensor; bioreactor; Parkinson's disease;
KW   Alzheimer's disease; inflammation; nephritis; wound healing;
KW   nerve repair; collateral blood vessel formation; cancer;
KW   colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;
KW   cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;
KW   scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;
KW   infertility; gene therapy; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2002197671-A1.
XX
PD   26-DEC-2002.
XX
PF   17-JUL-2001; 2001US-00907824.
XX
PR   17-SEP-1997;  97US-0059113P.
PR   17-SEP-1997;  97US-0059115P.
PR   17-SEP-1997;  97US-0059117P.
PR   17-SEP-1997;  97US-0059119P.
PR   17-SEP-1997;  97US-0059121P.
PR   17-SEP-1997;  97US-0059122P.
PR   17-SEP-1997;  97US-0051184P.
PR   18-SEP-1997;  97US-0059263P.
PR   18-SEP-1997;  97US-0059266P.
PR   15-OCT-1997;  97US-0061125P.
PR   17-OCT-1997;  97US-0062285P.
PR   17-OCT-1997;  97US-0062287P.
PR   21-OCT-1997;  97US-0064486P.
PR   24-OCT-1997;  97US-0062814P.
PR   24-OCT-1997;  97US-0062816P.
PR   24-OCT-1997;  97US-0063045P.
PR   24-OCT-1997;  97US-0063120P.
PR   24-OCT-1997;  97US-0063121P.
PR   24-OCT-1997;  97US-0063127P.
PR   24-OCT-1997;  97US-0063128P.
PR   27-OCT-1997;  97US-0063327P.
PR   27-OCT-1997;  97US-0063329P.
PR   28-OCT-1997;  97US-0063541P.
PR   28-OCT-1997;  97US-0063542P.
PR   28-OCT-1997;  97US-0063544P.
PR   28-OCT-1997;  97US-0063549P.
PR   28-OCT-1997;  97US-0063550P.
PR   28-OCT-1997;  97US-0063564P.
PR   29-OCT-1997;  97US-0063435P.
PR   29-OCT-1997;  97US-0063704P.
PR   29-OCT-1997;  97US-0063732P.
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PR   20-DEC-1999;  99WO-US030911.
PR   20-DEC-1999;  99WO-US030999.
PR   05-JAN-2000;  2000WO-US000219.
PR   11-FEB-2000;  2000WO-US003565.
PR   22-FEB-2000;  2000WO-US004414.
PR   24-FEB-2000;  2000WO-US005004.
PR   02-MAR-2000;  2000WO-US005841.
PR   20-MAR-2000;  2000WO-US007377.
PR   30-MAR-2000;  2000WO-US008439.
PR   22-MAY-2000;  2000WO-US014042.
PR   02-JUN-2000;  2000WO-US015264.
PR   28-JUL-2000;  2000WO-US020710.
PR   24-AUG-2000;  2000WO-US023328.
PR   18-SEP-2000;  2000WO-US0665350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI   Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI   Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI   Williams PM, Wood WI;
XX
DR   WPI; 2003-329602/31.
DR   P-PSDB; ABU71894.
XX
PT   New transmembrane polypeptides and nucleic acids encoding the
PT   polypeptides, useful in gene therapy, in chromosome identification, as
PT   chromosome markers, in generating probes and in tissue typing.
XX
PS   Claim 2; Fig 8; 484pp; English.
XX
CC   The invention relates to an isolated nucleic acid with at least 80%
CC   nucleic acid sequence identity to a nucleotide sequence encoding one of
CC   61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a
CC   PRO protein extracellular domain. Also included are a vector comprising
CC   the PRO nucleic acid, a host cell comprising the vector, producing a PRO
CC   polypeptide (by culturing the host cell for the expression of the PRO
CC   polypeptide, and recovering the PRO polypeptide from the cell culture),
CC   an isolated PRO polypeptide (having at least 80% sequence identity to: (
CC   a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino
CC   acid sequence encoded by a nucleic acid molecule deposited with an ATCC
CC   number (detailed in the specification); or (c) an extracellular domain of
CC   a PRO polypeptide or to a PRO polypeptide lacking its associated signal
CC   peptide), a chimaeric molecule comprising a PRO polypeptide of fused to a
CC   heterologous amino acid sequence, an anti-PRO antibody, detecting a
CC   PRO245 or PRO1868 in a sample suspected of containing the polypeptide,
CC   linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 and
CC   modulating at least one biological activity of a cell expressing a PRO245
CC   or PRO1868. Nucleic acids which encode PRO can be used to generate either
CC   transgenic animals or knock-out animals which may be used in the
CC   development and screening of therapeutically useful reagents. The nucleic
CC   acids may also be used in gene therapy, in chromosome identification, as
CC   chromosome markers, or in generating probes. The PRO polypeptides are
CC   useful as molecular markers for protein electrophoresis, and the isolated
CC   nucleic acids may be used for recombinantly expressing those markers. The
CC   PRO polypeptides and nucleic acids may also be used in tissue typing.
CC   Anti-PRO antibodies are useful in diagnostic assays for PRO, and in
CC   affinity purification of PRO from recombinant cell culture or natural
CC   sources. The present sequence encodes a PRO protein
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             100.0%;  Score 259;  DB 7;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 7.4e-61;
Matches  259;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy     1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCACCCCATCATGA 60
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCACCCCATCATGA 703

Qy    61 CTTGAGCCAGTCTCGTCCTGGTGTCCCCGACACCCAGCAGGGACAGGCACTCAGGAG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

CC   pharmaceuticals, diagnostics, biosensors or bioreactors. These are
CC   particularly useful for detecting or treating e.g. Parkinson's disease,
CC   Alzheimer's disease, inflammations, nephritis, wound healing, nerve
CC   repair, collateral blood vessel formation, cancers (e.g. colorectal
CC   cancer), haemorrhage (or reduce risk for haemorrhage), rheumatoid
CC   arthritis, diabetes, cirrhosis of the liver, fibrosis of the lungs,
CC   restenosis, dermal fibrotic conditions (e.g. keloids or scarring),
CC   ischaemia, strokes, hypertension, heart attacks, atherosclerosis, or
CC   infertility in mammals (e.g. humans, dogs, cats, cattle, horses, sheep,
CC   pigs, goats, or rabbits). The PRO polypeptides are useful as targets for
CC   therapeutic intervention in these diseases, and diagnostic determination
CC   of the presence of these diseases. The PRO polypeptides are also useful
CC   as molecular weight markers, or for chromosome identification. The PRO
CC   genes are useful as hybridisation probes, or for screening libraries of
CC   human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC   therapy, particularly for replacing a defective gene. This sequence
CC   encodes a novel human secreted and transmembrane PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   100.0%; Score 259; DB 7; Length 960;
Best Local Similarity   100.0%; Pred. No. 7.4e-61;
Matches 259; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 TAACCCTGTGCTCAGGACACCTCTTCCCCAGGAAGCCTTCCTGCCACCCCATCTATGA 60
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCTGCCACCCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 120
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 763

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAACTGAGGAGGACAAGAGTGCAGTG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAACTGAGGAGGACAAGAGTGCGACGTG 823

Qy   181 AGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   824 AGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy   241 ATTCGTGGGGCTCCCTGAA 259
              |||||||||||||||||||
Db   884 ATTCGTGGGGCTCCCTGAA 902

RESULT 12
ABX71461
ID   ABX71461 standard; cDNA; 960 BP.
XX
AC   ABX71461;
XX
DT   10-MAR-2003 (first entry)
XX
DE   Human cDNA encoding secreted/transmembrane protein PRO232.
XX
KW   Human; PRO; secreted protein; transmembrane protein; enterocolitis;
KW   gastrointestinal ulceration; skin disease; ss; gene;
KW   abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW   squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
KW   amyotrophic lateral sclerosis; inflammatory disease;
KW   rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
KW   atherosclerosis; cardiac injury; infertility; birth defect;
KW   premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
KW   diabetic complication; wound repair.
XX
OS   Homo sapiens.
XX
PN   US2002132240-A1.
XX
PD   19-SEP-2002.
XX
PF   18-JUL-2001; 2001US-00909320.
XX

PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064248P.
PR   07-NOV-1997; 97US-0064809P.
PR   12-NOV-1997; 97US-0065186P.
PR   17-NOV-1997; 97US-0065846P.
PR   18-NOV-1997; 97US-0065693P.
PR   21-NOV-1997; 97US-0066120P.
PR   21-NOV-1997; 97US-0066364P.
PR   24-NOV-1997; 97US-0066453P.
PR   24-NOV-1997; 97US-0066466P.
PR   24-NOV-1997; 97US-0066511P.
PR   24-NOV-1997; 97US-0066770P.
PR   24-NOV-1997; 97US-0066772P.
PR   10-SEP-1998; 98WO-US018824.
PR   14-SEP-1998; 98WO-US019177.
PR   16-SEP-1998; 98WO-US019930.
PR   17-SEP-1998; 98WO-US019437.
PR   01-DEC-1998; 98WO-US025108.
PR   08-SEP-1999; 99WO-US020594.
PR   13-SEP-1999; 99WO-US020944.
PR   15-SEP-1999; 99WO-US021090.
PR   15-SEP-1999; 99WO-US021547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
PR   30-NOV-1999; 99WO-US028313.
PR   01-DEC-1999; 99WO-US028301.
PR   02-DEC-1999; 99WO-US028564.
PR   02-DEC-1999; 99WO-US028565.
PR   16-DEC-1999; 99WO-US030095.
PR   20-DEC-1999; 99WO-US030911.
PR   20-DEC-1999; 99WO-US030999.
PR   05-JAN-2000; 2000WO-US000219.
PR   11-FEB-2000; 2000WO-US003565.
PR   22-FEB-2000; 2000WO-US004414.
PR   24-FEB-2000; 2000WO-US005004.
PR   02-MAR-2000; 2000WO-US005841.
PR   20-MAR-2000; 2000WO-US007377.
PR   30-MAR-2000; 2000WO-US008439.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   28-JUL-2000; 2000WO-US020710.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00665350.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-370793/35.
DR   P-PSDB; ABO01777.
XX
PT   New genes and secreted and transmembrane polypeptides (e.g. PRO245 or
PT   PRO335), useful for treating or diagnosing e.g. Alzheimer's disease,
PT   cancers, hemorrhage, rheumatoid arthritis, diabetes, cirrhosis, ischemia
PT   or strokes.
XX
PS   Claim 2; Fig 8; 482pp; English.
XX
CC   The invention describes a new isolated nucleic acid molecule comprising
CC   the full length coding sequence of the DNA deposited with the American
CC   Type Culture Collection (e.g. ATCC Deposit No. 209258) ,or a sequence
CC   with at least 80% identity to a DNA encoding a PRO polypeptide comprising
CC   any of 61 sequences having 164-1119 amino acids fully defined in the
CC   specification. The PRO polypeptides or polynucleotides are useful as

PR	17-SEP-1997; 97US-0059113P.
PR	17-SEP-1997; 97US-0059115P.
PR	17-SEP-1997; 97US-0059117P.
PR	17-SEP-1997; 97US-0059119P.
PR	17-SEP-1997; 97US-0059121P.
PR	17-SEP-1997; 97US-0059122P.
PR	17-SEP-1997; 97US-0059184P.
PR	18-SEP-1997; 97US-0059263P.
PR	18-SEP-1997; 97US-0059266P.
PR	15-OCT-1997; 97US-0061225P.
PR	17-OCT-1997; 97US-0062285P.
PR	17-OCT-1997; 97US-0062287P.
PR	21-OCT-1997; 97US-0061486P.
PR	24-OCT-1997; 97US-0062814P.
PR	24-OCT-1997; 97US-0062816P.
PR	24-OCT-1997; 97US-0061045P.
PR	24-OCT-1997; 97US-0061120P.
PR	24-OCT-1997; 97US-0061121P.
PR	24-OCT-1997; 97US-0061128P.
PR	27-OCT-1997; 97US-0063327P.
PR	27-OCT-1997; 97US-0063329P.
PR	28-OCT-1997; 97US-0063541P.
PR	28-OCT-1997; 97US-0063542P.
PR	28-OCT-1997; 97US-0063544P.
PR	28-OCT-1997; 97US-0063549P.
PR	28-OCT-1997; 97US-0063550P.
PR	28-OCT-1997; 97US-0063564P.
PR	29-OCT-1997; 97US-0063435P.
PR	29-OCT-1997; 97US-0063704P.
PR	29-OCT-1997; 97US-0063732P.
PR	29-OCT-1997; 97US-0063734P.
PR	29-OCT-1997; 97US-0063735P.
PR	29-OCT-1997; 97US-0063738P.
PR	29-OCT-1997; 97US-0064215P.
PR	31-OCT-1997; 97US-0063870P.
PR	31-OCT-1997; 97US-0064103P.
PR	03-NOV-1997; 97US-0064248P.
PR	07-NOV-1997; 97US-0064809P.
PR	12-NOV-1997; 97US-0065186P.
PR	17-NOV-1997; 97US-0065693P.
PR	18-NOV-1997; 97US-0065693P.
PR	21-NOV-1997; 97US-0066120P.
PR	21-NOV-1997; 97US-0063364P.
PR	24-NOV-1997; 97US-0064453P.
PR	24-NOV-1997; 97US-0064466P.
PR	24-NOV-1997; 97US-0066511P.
PR	24-NOV-1997; 97US-0066770P.
PR	24-NOV-1997; 97US-0066772P.
PR	10-SEP-1998; 98US-018824.
PR	14-SEP-1998; 98WO-US019177.
PR	16-SEP-1998; 98WO-US019330.
PR	17-SEP-1998; 98WO-US028313.
PR	01-DEC-1998; 98WO-US025108.
PR	08-SEP-1999; 99WO-US020594.
PR	13-SEP-1999; 99WO-US020944.
PR	15-SEP-1999; 99WO-US021090.
PR	15-SEP-1999; 99WO-US021547.
PR	05-OCT-1999; 99WO-US023089.
PR	29-NOV-1999; 99WO-US028214.
PR	30-NOV-1999; 99WO-US028301.
PR	01-DEC-1999; 99WO-US028564.
PR	02-DEC-1999; 99WO-US028565.
PR	16-DEC-1999; 99WO-US030095.
PR	20-DEC-1999; 99WO-US030911.
PR	20-DEC-1999; 99WO-US030999.
PR	06-JAN-2000; 2000WO-US000219.
PR	11-FEB-2000; 2000WO-US003565.
PR	22-FEB-2000; 2000WO-US004414.
PR	24-FEB-2000; 2000WO-US005004.
PR	02-MAR-2000; 2000WO-US005841.
PR	20-MAR-2000; 2000WO-US007377.

PR	30-MAR-2000; 2000WO-US008439.
PR	22-MAY-2000; 2000WO-US014042.
PR	02-JUN-2000; 2000WO-US015264.
PR	28-JUL-2000; 2000WO-US020710.
PR	24-AUG-2000; 2000WO-US023328.
PR	18-SEP-2000; 2000US-00665350.
XX	
PA	(GETH) GENENTECH INC.
XX	
PI	Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI	Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI	Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI	Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI	Williams PM, Wood WI;
XX	
DR	WPI; 2003-147434/14.
DR	P-PSDB; ABU54350.
XX	
PT	New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
PT	treating inflammatory diseases, organ failure, atherosclerosis, cardiac
PT	injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
PT	disease.
XX	
PS	Claim 2; Fig 2; 473pp; English.
XX	
CC	The invention relates to an isolated PRO polypeptide having at least 80%
CC	amino acid sequence identity to: (a) any one of 61 fully defined amino
CC	acid sequences given in the specification (appearing as ABU54347-
CC	ABU54407); (b) an amino acid sequence encoded by the nucleotide sequence
CC	deposited under American Type Culture Collection (accession numbers
CC	listed in the specification); (c) any one of the PRO sequences which
CC	lacks its associated signal peptide; (d) an extracellular domain of the
CC	PRO polypeptide with its associated signal peptide; or (e) an
CC	extracellular domain of the PRO polypeptide which lacks its associated
CC	signal peptide. Also include are the nucleic acids encoding the PRO
CC	polypeptides, vectors, host cells and anti-PRO antibodies. The PRO
CC	polypeptides and nucleic acids are useful in diagnosing or treating
CC	enterocolitis, gastrointestinal ulceration, skin diseases associated with
CC	abnormal keratinocyte differentiation, e.g. psoriasis or epithelial
CC	cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's
CC	disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g.
CC	rheumatoid arthritis, asthma or multiple sclerosis, organ failure,
CC	atherosclerosis, cardiac injury, infertility, birth defects, premature
CC	aging, AIDS, cancer, diabetic complications, or mutations in general. The
CC	polypeptides are also useful for wound repair and associated therapies
CC	concerned with re-growth of tissue. The nucleotide sequences may be used
CC	as hybridisation probes in chromosome and gene mapping, or in generating
CC	antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
CC	polypeptides, in assays to identify other proteins or molecules involved
CC	in binding reaction, to generate transgenic animals or knockout animals,
CC	which in turn are useful in the development and screening of
CC	therapeutically useful reagents, for chromosome identification, and
CC	tissue typing. The PRO polypeptides and nucleic acid molecules are also
CC	useful in gene therapy, and as molecular weight markers for protein
CC	electrophoresis purposes. The anti-PRO antibodies may be used in
CC	diagnostic assays for PRO, or for the affinity purification of PRO from
CC	recombinant cell culture or natural sources. The present sequence encodes
CC	a PRO polypeptide
XX	
SQ	Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   100.0%;   Score 259; DB 7; Length 960;
Best Local Similarity 100.0%;   Pred. No. 7.4e-61;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TAACCCTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA 60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTCCCCGGGTGTCCCCGGGGACCAGGCACTCAGGAG 120
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   704 CTTGAGCCAGGTCTGGTCCGTGGTCCCCGGGTGTCCCCGGGGACCAGGCACTCAGGAG 763

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Qy      121  GGCCCAGTAAAGGCTGAGATGAAGTCGACTGAGTAGAACTCGAGGACAAGAGTCGACGTG  180
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      764  GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTCGAGGACAAGAGTCGACGTG  823

Qy      181  AGTTCCTGGGAGTCTCCAGAGATGGGCGGCCTCGGAGGGGCCTCGGAGGAAGGGGCCAGGCCTCAC  240
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      824  AGTTCCTGGGAGTCTCCAGAGATGGGCGGCCTCGGAGGGGCCTCGGAGGAAGGGGCCAGGCCTCAC  883

Qy      241  ATTCGTGGGGCTCCCTGAA  259
             |||||||||||||||||
Db      884  ATTCGTGGGGCTCCCTGAA  902


RESULT 13
ACH06793
ID   ACH06793 standard; cDNA; 960 BP.
XX
AC   ACH06793;
XX
DT   08-OCT-2003  (first entry)
XX
DE   Human secreted/transmembrane polypeptide PRO232 cDNA.
XX
KW   Human; gene; ss; abnormal bleeding; gynaecological disease; asthma;
KW   hysterectomy; angiogenesis; coronary ischaemic condition; skin disease;
KW   gastrointestinal disorder; acute mucosal lesion; neuropathy; ALS;
KW   chronic mucosal lesion; abnormal keratinocyte differentiation; psoriasis;
KW   Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;
KW   uncontrolled cell growth; cancer; blood coagulation cascade; thrombosis;
KW   haemorrhage; endometrial bleeding; angiogenesis; wound healing; tumour;
KW   tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.
XX
OS   Homo sapiens.
XX
PN   US200304839-A1.
XX
PD   06-MAR-2003.
XX
PF   10-JUL-2001; 2001US-00902903.
XX
PR   17-SEP-1997;    97US-0059113P.
PR   17-SEP-1997;    97US-0059115P.
PR   17-SEP-1997;    97US-0059117P.
PR   17-SEP-1997;    97US-0059119P.
PR   17-SEP-1997;    97US-0059121P.
PR   17-SEP-1997;    97US-0059122P.
PR   17-SEP-1997;    97US-0059184P.
PR   18-SEP-1997;    97US-0059263P.
PR   18-SEP-1997;    97US-0059266P.
PR   15-OCT-1997;    97US-0061125P.
PR   17-OCT-1997;    97US-0062285P.
PR   17-OCT-1997;    97US-0062287P.
PR   21-OCT-1997;    97US-0063486P.
PR   24-OCT-1997;    97US-0062814P.
PR   24-OCT-1997;    97US-0062816P.
PR   24-OCT-1997;    97US-0063045P.
PR   24-OCT-1997;    97US-0063120P.
PR   24-OCT-1997;    97US-0063121P.
PR   24-OCT-1997;    97US-0063127P.
PR   24-OCT-1997;    97US-0063128P.
PR   27-OCT-1997;    97US-0063327P.
PR   27-OCT-1997;    97US-0063329P.
PR   28-OCT-1997;    97US-0063541P.
PR   28-OCT-1997;    97US-0063542P.
PR   28-OCT-1997;    97US-0063544P.
PR   28-OCT-1997;    97US-0063549P.
PR   28-OCT-1997;    97US-0063550P.
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PR   29-OCT-1997;    97US-0063704P.
PR   29-OCT-1997;    97US-0063732P.
PR   29-OCT-1997;    97US-0063734P.
PR   29-OCT-1997;    97US-0063735P.
PR   29-OCT-1997;    97US-0063738P.
PR   29-OCT-1997;    97US-0064215P.
PR   31-OCT-1997;    97US-0063870P.
PR   31-OCT-1997;    97US-0061103P.
PR   03-NOV-1997;    97US-0064248P.
PR   07-NOV-1997;    97US-0064809P.
PR   12-NOV-1997;    97US-0051186P.
PR   17-NOV-1997;    97US-0055846P.
PR   18-NOV-1997;    97US-0065693P.
PR   21-NOV-1997;    97US-0066120P.
PR   24-NOV-1997;    97US-0066364P.
PR   24-NOV-1997;    97US-0066453P.
PR   24-NOV-1997;    97US-0066466P.
PR   24-NOV-1997;    97US-0066511P.
PR   24-NOV-1997;    97US-0066770P.
PR   24-NOV-1997;    97US-0066772P.
PR   25-NOV-1997;    97US-0066840P.
PR   12-DEC-1997;    97US-0069425P.
PR   04-JUN-1998;    98US-0088026P.
PR   10-SEP-1998;    98US-0099803P.
PR   10-SEP-1998;    98WO-US018824.
PR   14-SEP-1998;    98US-0100262P.
PR   14-SEP-1998;    98WO-US019177.
PR   16-SEP-1998;    98WO-US019330.
PR   17-SEP-1998;    98US-0100858P.
PR   17-SEP-1998;    98WO-US019437.
PR   13-OCT-1998;    98US-0104080P.
PR   20-NOV-1998;    98US-0109304P.
PR   01-DEC-1998;    98WO-US025108.
PR   22-DEC-1998;    98US-0113296P.
PR   07-JUL-1999;    99US-0143048P.
PR   26-JUL-1999;    99US-0145698P.
PR   28-JUL-1999;    99US-0146222P.
PR   08-SEP-1999;    99WO-US020594.
PR   13-SEP-1999;    99WO-US020944.
PR   15-SEP-1999;    99WO-US021090.
PR   15-SEP-1999;    99WO-US021547.
PR   05-OCT-1999;    99WO-US023089.
PR   29-NOV-1999;    99WO-US028814.
PR   30-NOV-1999;    99WO-US028313.
PR   01-DEC-1999;    99WO-US028301.
PR   02-DEC-1999;    99WO-US028564.
PR   02-DEC-1999;    99WO-US028565.
PR   16-DEC-1999;    99WO-US030005.
PR   20-DEC-1999;    99WO-US030911.
PR   20-DEC-1999;    99WO-US030999.
PR   05-JAN-2000;    2000WO-US000219.
PR   11-FEB-2000;    2000WO-US003565.
PR   22-FEB-2000;    2000WO-US004414.
PR   24-FEB-2000;    2000WO-US005004.
PR   02-MAR-2000;    2000WO-US005841.
PR   20-MAR-2000;    2000WO-US007377.
PR   30-MAR-2000;    2000WO-US008439.
PR   22-MAY-2000;    2000WO-US014042.
PR   02-JUN-2000;    2000WO-US015264.
PR   28-JUL-2000;    2000WO-US020710.
PR   24-AUG-2000;    2000WO-US023328.
PR   18-SEP-2000;    2000US-0065350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,  Botstein D,  Desnoyers L,  Eaton DL,  Ferrara N;
PI   Filvaroff E,  Fong S,  Gao W,  Gerber H,  Gerritsen ME,  Goddard A;
PI   Godowski PJ,  Grimaldi JC,  Gurney AL,  Hillan KJ,  Kljavin IJ;
PI   Mather JP,  Pan J,  Paoni NF,  Roy MA,  Stewart TA,  Tumas D;
PI   Williams PM,  Wood WI;
XX
DR   WPI; 2003-492258/46.
DR   P-PSDB; ABO47365.
XX
PT   Novel secreted and transmembrane polypeptides and polynucleotides
PT   encoding them useful for treating abnormal bleeding involved in
PT   gynaecological diseases, skin diseases and neurodegenerative diseases.
```

```
XX
PS      Claim 3; Fig 8; 478pp; English.
XX
CC      The invention relates to an isolated PRO polypeptide. PRO317 is useful in
CC      diagnosing or treating abnormal bleeding involved in gynecological
CC      diseases e.g. to avoid or lessen the need for hysterectomy. PRO317 may
CC      also be useful as an agent that affects angiogenesis and PRO317 is useful
CC      in anti-tumour indications or in treating coronary ischaemic conditions.
CC      PRO211 and PRO217 polypeptides are useful for treating disorders
CC      associated with the preservation and maintenance of gastrointestinal
CC      mucosa and the repair of acute and chronic mucosal lesions, skin diseases
CC      associated with abnormal keratinocyte differentiation (e.g. psoriasis).
CC      PRO187 polypeptide is useful for treating Parkinson's disease,
CC      Alzheimer's disease, amyotrophic lateral sclerosis (ALS), neuropathies
CC      and disease related to uncontrolled cell growth, e.g. cancer. PRO219
CC      polypeptide plays a regulatory role in the blood coagulation cascade.
CC      PRO246 polypeptides which serves as tumour specific antigens may be
CC      exploited as therapeutic targets for anti-tumour drugs. PRO269
CC      polypeptide is useful as an antithrombotic agent with reduced risk for
CC      haemorrhage as compared with heparin. PRO317 polypeptide is useful in
CC      treating endometrial bleeding angiogenesis. PRO287 polypeptides and
CC      portion have therapeutic applications in wound healing and tissue repair.
CC      PRO234 polypeptides are useful for treating asthma, rheumatoid arthritis,
CC      psoriasis and multiple sclerosis. The polypeptide and its nucleic acid
CC      are useful for tissue typing. PRO antibodies are useful for
CC      immunohistochemical staining and/or assay of sample fluids. Anti-PRO
CC      antibodies are useful in diagnostic assays for PRO e.g. detecting its
CC      expression in specific cells, tissues or serum and for affinity
CC      purification of PRO from recombinant cell culture or natural sources. The
CC      present sequence represents cDNA encoding a human secreted/transmembrane
CC      PRO polypeptide
XX
SQ      Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             100.0%;  Score 259; DB 7;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 7.4e-61;
Matches  259;   Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 60
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Db    644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 703

Qy     61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 120
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Db    704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 763

Qy    121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGACAAGAGTCGACGTG 180
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Db    764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGACAAGAGTCGACGTG 823

Qy    181 AGTTCCTGGGAGTCTTCCAGAGATGGGGCCTGGAGGGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
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Db    824 AGTTCCTGGGAGTCTTCCAGAGATGGGGCCTGGAGGGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy    241 ATTCGTGGGGCTCCCTGAA 259
          |||||||||||||||||||
Db    884 ATTCGTGGGGCTCCCTGAA 902
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RESULT 14
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ID      ABX96030 standard; cDNA; 960 BP.
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AC      ABX96030;
XX
DT      13-MAY-2003 (first entry)
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DE      Human secreted/transmembrane protein cDNA, #5.
XX
KW      Human; gene; ss; PRO; secreted; transmembrane; pharmaceutical;
KW      diagnostic; biosensor; bioreactor; therapeutic; hyperplasia;
KW      endometriosis; cancer; tumour; ischaemia; coronary arterial disease;
KW      polycystic kidney disease; renal failure; inflammatory response; asthma;
```

Second column (top):
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KW      rheumatoid arthritis; psoriasis; multiple sclerosis; gene therapy;
KW      cytostatic; gynecological; cardiant; nephrotropic; hepatotropic;
KW      antiinflammatory.
XX
OS      Homo sapiens.
XX
PN      US2002160374-A1.
XX
PD      31-OCT-2002.
XX
PF      12-JUL-2001; 2001US-00905291.
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PR      17-SEP-1997;  97US-0059113P.
PR      17-SEP-1997;  97US-0059115P.
PR      17-SEP-1997;  97US-0059117P.
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PR      27-OCT-1997;  97US-0063329P.
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PR      28-OCT-1997;  97US-0063564P.
PR      29-OCT-1997;  97US-0063435P.
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PR      29-OCT-1997;  97US-0063732P.
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PR      29-OCT-1997;  97US-0063735P.
PR      29-OCT-1997;  97US-0063738P.
PR      29-OCT-1997;  97US-0064215P.
PR      31-OCT-1997;  97US-0063870P.
PR      31-OCT-1997;  97US-0064103P.
PR      03-NOV-1997;  97US-0064248P.
PR      07-NOV-1997;  97US-0064809P.
PR      12-NOV-1997;  97US-0065186P.
PR      17-NOV-1997;  97US-0065846P.
PR      18-NOV-1997;  97US-0065699P.
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PR      21-NOV-1997;  97US-0066364P.
PR      24-NOV-1997;  97US-0066451P.
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PR      24-NOV-1997;  97US-0066511P.
PR      24-NOV-1997;  97US-0066770P.
PR      24-NOV-1997;  97US-0066772P.
PR      10-SEP-1998;  98WO-US018824.
PR      14-SEP-1998;  98WO-US019177.
PR      16-SEP-1998;  98WO-US019330.
PR      17-SEP-1998;  98WO-US019437.
PR      01-DEC-1998;  98WO-US025108.
PR      08-SEP-1999;  99WO-US020594.
PR      13-SEP-1999;  99WO-US020944.
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PR      15-SEP-1999;  99WO-US021547.
PR      05-OCT-1999;  99WO-US023089.
PR      29-NOV-1999;  99WO-US028214.
PR      30-NOV-1999;  99WO-US028313.
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Db          824 AGTTCCTGGGAGTCTTCCAGAGATGGGGCCTTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy          241 ATTCGTGGGGCTCCCTGAA 259
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Db          884 ATTCGTGGGGCTCCCTGAA 902


RESULT 15
ACA05351
ID   ACA05351 standard; cDNA; 960 BP.
XX
AC   ACA05351;
XX
DT   29-MAY-2003 (first entry)
XX
DE   cDNA encoding human secreted protein PRO232.
XX
KW   Human; gene therapy; mucosal lesion; ulcer; enterocolitis; skin disease;
KW   psoriasis; cancer; lung cancer; colon cancer; nerve cell disease;
KW   Alzheimer's disease; Parkinson's disease; Usher syndrome; angiogenesis;
KW   atrophia areata; inflammatory disease; asthma; rheumatoid arthritis;
KW   ischaemia; ss; gene.
XX
OS   Homo sapiens.
XX
PN   US2003023054-A1.
XX
PD   30-JAN-2003.
XX
PF   16-JUL-2001; 2001US-00906742.
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PR   17-SEP-1997;          97US-0059115P.
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PR   17-SEP-1997;          97US-0059121P.
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PR   18-SEP-1997;          97US-0059184P.
PR   18-SEP-1997;          97US-0059263P.
PR   18-SEP-1997;          97US-0059266P.
PR   15-OCT-1997;          97US-0062125P.
PR   17-OCT-1997;          97US-0062285P.
PR   17-OCT-1997;          97US-0062287P.
PR   21-OCT-1997;          97US-0063486P.
PR   24-OCT-1997;          97US-0062814P.
PR   24-OCT-1997;          97US-0062816P.
PR   24-OCT-1997;          97US-0063045P.
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PR   24-OCT-1997;          97US-0063121P.
PR   24-OCT-1997;          97US-0063127P.
PR   24-OCT-1997;          97US-0063128P.
PR   27-OCT-1997;          97US-0063327P.
PR   27-OCT-1997;          97US-0063329P.
PR   28-OCT-1997;          97US-0063541P.
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PR   29-OCT-1997;          97US-0063734P.
PR   29-OCT-1997;          97US-0063735P.
PR   29-OCT-1997;          97US-0063738P.
PR   29-OCT-1997;          97US-0064215P.
PR   31-OCT-1997;          97US-0063870P.
PR   31-OCT-1997;          97US-0064103P.
PR   03-NOV-1997;          97US-0064248P.
PR   07-NOV-1997;          97US-0064809P.
PR   12-NOV-1997;          97US-0065186P.
PR   17-NOV-1997;          97US-0065846P.
PR   18-NOV-1997;          97US-0065693P.
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PR   01-DEC-1999;          99WO-US028301.
PR   02-DEC-1999;          99WO-US028564.
PR   02-DEC-1999;          99WO-US028565.
PR   16-DEC-1999;          99WO-US030095.
PR   20-DEC-1999;          99WO-US030911.
PR   20-DEC-1999;          99WO-US030999.
PR   05-JAN-2000;          2000WO-US000219.
PR   11-FEB-2000;          2000WO-US003565.
PR   22-FEB-2000;          2000WO-US004414.
PR   24-FEB-2000;          2000WO-US005004.
PR   02-MAR-2000;          2000WO-US005841.
PR   20-MAR-2000;          2000WO-US007377.
PR   30-MAR-2000;          2000WO-US008439.
PR   22-MAY-2000;          2000WO-US014042.
PR   02-JUN-2000;          2000WO-US015264.
PR   28-JUL-2000;          2000WO-US020710.
PR   24-AUG-2000;          2000WO-US023328.
PR   18-SEP-2000;          2000US-00663350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,    Botstein D,    Desnoyers L,    Eaton DL,    Ferrara N;
PI   Filvaroff E,    Fong S,    Gao W,    Gerber H,    Gerritsen ME,    Goddard A;
PI   Godowski PJ,    Grimaldi JC,    Gurney AL,    Hillan KJ,    Kljavin IJ;
PI   Mather JP,    Pan J,    Paoni NF,    Roy MA,    Stewart TA,    Tumas D;
PI   Williams PM,    Wood WI;
XX
DR   WPI; 2003-288105/28.
DR   P-PSDB; ABU64502.
XX
PT   New secreted and transmembrane PRO polypeptides (e.g. PRO533 or PRO245)
PT   and genes encoding them, useful for detecting or treating e.g.
PT   hyperplasia, endometriosis, cancers, ischemia, coronary arterial disease
PT   or inflammation.
XX
PS   Claim 2; Fig 8; 477pp; English.
XX
CC   The invention discloses isolated PRO secreted/transmembrane polypeptides
CC   and the nucleic acid encoding them. The polypeptides can be used to raise
CC   antibodies that specifically bind to the PRO polypeptide, for linking a
CC   bioactive molecule to a cell expressing a PRO protein and for modulating
CC   at least one biological activity of a cell. The PRO polypeptides or
CC   polynucleotides are also useful as pharmaceuticals, diagnostics.
CC   biosensors or bioreactors, for detecting or treating e.g. hyperplasia,
CC   endometriosis, cancers (e.g. those involving solid tumours), ischaemia,
CC   coronary arterial disease, polycystic kidney disease, chronic or acute
CC   renal failure, or inflammatory responses (e.g. asthma, rheumatoid
CC   arthritis, psoriasis or multiple sclerosis) in mammals. The PRO genes may
CC   also be used in gene therapy, particularly for replacing a defective
CC   gene. The sequences presented in ABX96017-ABX96378 are the genes
CC   encoding, the primers amplifying and the probes detecting the PRO
CC   polynucleotides of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             100.0%;  Score 259;  DB 7;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 7.4e-61;
Matches  259;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy     1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 60
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Db   644 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 703

Qy    61 CTTGAGCCAGTCTGCTTCGTTGGTGTCCCCCGCACCCAGCAGGGGACACAGAGAGTCAGGAG 120
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Qy   121 GGCCCAGTAAAGCCTGAGATGAAGTGACTGAGGTAGAACTCGAGGACAAGAGTCGACGTG 180
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Qy   181 AGTTCCTGGGAGTCTTCCAGAGATGGGGCCTTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
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PR 24-NOV-1997; 97US-0064466P.
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PR 12-DEC-1997; 97US-0094425P.
PR 04-JUN-1998; 98US-0008026P.
PR 10-SEP-1998; 98US-0099803P.
PR 10-SEP-1998; 98US-0100262P.
PR 14-SEP-1998; 98WO-US018B24.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98WO-US019437.
PR 13-OCT-1998; 98US-0104080P.
PR 20-NOV-1998; 98US-0109304P.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113296P.
PR 07-JUL-1999; 99US-0143048P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 08-SEP-1999; 99US-0220594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI Williams PM,   Wood WI;
XX
DR WPI; 2003-331485/31.
DR P-PSDB; ABU67348.
XX
PT Sixty one isolated nucleic acids encoding a PRO polypeptide, e.g. PRO245
PT or PRO1868, useful in chromosome and gene mapping, in generating
PT antisense RNA and DNA, and in treating cancer and Alzheimer's disease.
XX
PS Example 4; Fig 8; 481pp; English.
XX
CC The invention relates to sixty one nucleic acids encoding PRO
CC polypeptides (secreted and transmembrane). The polynucleotide is useful
CC in molecular biology, including uses as hybridisation probes, in
CC chromosome and gene mapping, in generating antisense RNA and DNA, and in
CC gene therapy. The polynucleotide may also be used in preparing PRO
CC polypeptides by recombinant techniques, and in generating either

CC transgenic animals or knock-out animals which, in turn, are useful in the
CC development and screening of therapeutically useful reagents. The PRO
CC polypeptide or the antibody is used in preparing a medicament for
CC treating a condition responsive to the polypeptide or antibody, such as
CC mucosal lesions e.g. ulcers and enterocolitis, skin disease e.g.
CC psoriasis, cancer e.g. lung cancer and colon cancer, nerve cell disease
CC e.g. Alzheimer's disease and Parkinson's disease, Usher syndrome,
CC atrophia areata, angiogenesis, inflammatory disease e.g asthma and
CC rheumatoid arthritis, ischaemia, and in various diagnostic assays. The
CC present sequence represents an cDNA which encodes a PRO polypeptide
XX
SQ Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   100.0%;   Score 259; DB 7; Length 960;
Best Local Similarity   100.0%;   Pred. No. 7.4e-61;
Matches 259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 TAACCCTGTCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 60
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Db   644 TAACCCTGTCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 120
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Qy   241 ATTCGTGGGGCTCCCTGAA 259
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Job time : 169.311 secs

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                        GenCore version 5.1.6
            Copyright  (c) 1993 - 2004  Compugen Ltd.

OM nucleic - nucleic search, using sw model

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                                          4750.463 Million cell updates/sec

Title:         US-09-079-874-9
Perfect score: 259
Sequence:    1 TAACCCTGTGCTCAGGCACC.........CATTCGTGGGGCTCCCTGAA 259

Scoring table: IDENTITY_NUC
               Gapop 10.0 , Gapext 1.0

Searched:    682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters:    1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

                          SUMMARIES
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	2	259	100.0	960	4	US-09-905-125A-17	Sequence 17, Appl
	3	259	100.0	960	4	US-09-902-775A-17	Sequence 17, Appl
	4	238.6	92.1	998	3	US-09-203-939-1	Sequence 1, Appli
	5	238.6	92.1	998	3	US-09-251-835-1	Sequence 1, Appli
	6	238.6	92.1	998	3	US-09-318-503-1	Sequence 1, Appli
	7	238.6	92.1	998	3	US-09-038-261A-1	Sequence 1, Appli
	8	238.6	92.1	998	4	US-09-564-329A-1	Sequence 1, Appli
	9	34	13.1	29629	4	US-09-729-995-3	Sequence 3, Appli
	10	34	13.1	29629	4	US-10-135-689-3	Sequence 3, Appli
c	11	32.8	12.7	7218	4	US-08-232-463-14	Sequence 14, Appl
	12	32.6	12.6	70000	4	US-09-851-896-3	Sequence 3, Appli
	13	31.8	12.3	364	4	US-09-621-976-17202	Sequence 17202, A
	14	31.8	12.3	3249	4	US-09-343-494-2	Sequence 2, Appli
	15	31.8	12.3	3323	4	US-09-600-776-1	Sequence 1, Appli
	16	31.8	12.3	3857	4	US-09-336-643A-19	Sequence 19, Appl
	17	31.4	12.1	755	4	US-09-325-932A-204	Sequence 204, App
	18	31.4	12.1	2082	4	US-09-818-780-67	Sequence 67, Appl
	19	31.2	12.0	5720	4	US-09-800-729-18	Sequence 18, Appl
c	20	31.2	12.0	4403765	3	US-09-103-840A-2	Sequence 2, Appli
c	21	31.2	12.0	4411529	3	US-09-103-840A-1	Sequence 1, Appli
	22	30.8	11.9	5128	4	US-09-264-512B-1	Sequence 1, Appli
c	23	30.6	11.8	2466	4	US-09-252-991A-13776	Sequence 13776, A
	24	30.6	11.8	2487	4	US-09-252-991A-13654	Sequence 13654, A
	25	30.4	11.7	1341	4	US-09-023-655-601	Sequence 601, App
	26	30.2	11.7	3249	4	US-09-358-383C-3	Sequence 3, Appli
	27	30.2	11.7	3355	4	US-09-358-383C-1	Sequence 1, Appli
c	28	30.2	11.7	9208	4	US-09-068-506-1	Sequence 1, Appli
c	29	29.8	11.5	209	4	US-09-621-976-10955	Sequence 10955, A
	30	29.8	11.5	419	5	PCT-US95-08295-20	Sequence 20, Appl
	31	29.8	11.5	439	4	US-09-833-381-783	Sequence 783, App
	32	29.8	11.5	439	4	US-09-833-381-784	Sequence 784, App
	33	29.8	11.5	585	4	US-09-252-991A-15523	Sequence 15523, A
	34	29.8	11.5	1086	4	US-09-252-991A-15474	Sequence 15474, A
	35	29.8	11.5	18853	4	US-09-820-005-3	Sequence 3, Appli
c	36	29.8	11.5	193303	4	US-09-497-855A-37	Sequence 37, Appl
c	37	29.8	11.5	193303	4	US-09-497-855A-44	Sequence 44, App
c	38	29.6	11.4	1543	3	US-09-023-655-424	Sequence 424, App
	39	29.4	11.4	3691	3	US-09-211-704A-3	Sequence 3, Appli
c	40	29.4	11.4	118067	4	US-09-497-855A-32	Sequence 32, Appl
	41	28.8	11.1	366	4	US-09-489-039A-5532	Sequence 5532, Ap
c	42	28.8	11.1	2187	4	US-09-489-039A-6238	Sequence 6238, Ap
c	43	28.8	11.1	29629	4	US-09-729-995-3	Sequence 3, Appli
c	44	28.8	11.1	29629	3	US-10-135-689-3	Sequence 3, Appli
c	45	28.6	11.0	824	3	US-08-828-972-4	Sequence 4, Appli

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                            ALIGNMENTS

RESULT 1
US-09-907-794A-17
; Sequence 17, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/907,794A
;   CURRENT FILING DATE: 2001-07-17
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
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; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-794A-17

Query Match   100.0%;   Score 259; DB 4;   Length 960;
Best Local Similarity 100.0%;   Pred. No. 1.4e-67;
Matches 259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 644 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGCACAGGCACTCAGGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGCACAGGCACTCAGGAG 763

Qy 121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 823

Qy 181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy 241 ATTCGTGGGGCTCCCTGAA 259
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Db 884 ATTCGTGGGGCTCCCTGAA 902

RESULT 2
US-09-905-125A-17
; Sequence 17, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Godard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-905-125A-17

Query Match   100.0%;   Score 259; DB 4;   Length 960;
Best Local Similarity 100.0%;   Pred. No. 1.4e-67;
Matches 259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 644 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGCACAGGCACTCAGGAG 120
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Qy 121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 180
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Db 764 GGCCCAGTAAAGGCTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 823

Qy 181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 240

Qy   241 ATTCGTGGGGCTCCCTGAA 259
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Db   884 ATTCGTGGGGCTCCCTGAA 902

RESULT 3
US-09-902-775A-17
; Sequence 17, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/902,775A
;   CURRENT FILING DATE: 2001-07-10
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-902-775A-17

Query Match   100.0%; Score 259; DB 4; Length 960;
Best Local Similarity   100.0%; Pred. No. 1.4e-67;
Matches 259; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGTCCGTGGTCGTGTCCCCCGACCCAGGGACAGGCACTCAGGAG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   704 CTTGAGCCAGGTCTGTCCGTGGTCGTGTCCCCCGACCCAGGGACAGGCACTCAGGAG 763

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 823

Qy   181 AGTTCCTGGGAGTTCCAGAGATGGGCCTGGAGCCTGGAGGGGCCAGGCCTCAC 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   824 AGTTCCTGGGAGTTCCAGAGATGGGCCTGGAGCCTGGAGGGGCCAGGCCTCAC 883

Qy   241 ATTCGTGGGGCTCCCTGAA 259
           |||||||||||||||||||
Db   884 ATTCGTGGGGCTCCCTGAA 902

RESULT 4
US-09-203-939-1
; Sequence 1, Application US/09203939
; Patent No. 6258939
; GENERAL INFORMATION:
;   APPLICANT: Reiter, Robert E.
;   APPLICANT: Witte, Owen N.
;   TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
;   FILE REFERENCE: 30435.54USI1
;   CURRENT APPLICATION NUMBER: US/09/203,939
;   CURRENT FILING DATE: 2000-12-02
;   PRIOR APPLICATION NUMBER: 08/814,279
;   PRIOR FILING DATE: 1997-03-10
;   PRIOR APPLICATION NUMBER: 60/071,141
;   PRIOR FILING DATE: 1998-01-12
;   PRIOR APPLICATION NUMBER: 60/074,675
;   PRIOR FILING DATE: 1998-02-13
;   PRIOR APPLICATION NUMBER: 09/038,261
;   PRIOR FILING DATE: 1998-03-10
;   NUMBER OF SEQ ID NOS: 16
;   SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 998
;   TYPE: DNA
;   ORGANISM: HUMAN PSCA (hPSCA)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (543)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (580)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (584)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (604)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature

LOCATION: (608)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (615)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (636)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (640)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (646)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (697)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (926)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
US-09-203-939-1

Query Match   92.1%;   Score 238.6; DB 3; Length 998;
Best Local Similarity 95.7%; Pred. No. 1.6e-61;
Matches 244; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy   1 TAACCCTGTGTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA   60
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Db   676 TAACCCTGTGTTCAGGCACTTNTTCCCCCAGGAAGCCTTCCCTGCCACCCATTTATGA   735

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCGGGACAGCAGCACTCAGGAG   120
           |||||||||| |||||||||||||||||||||||||||||||||||| ||| |||||||
Db   736 ATTGAGCCAGGTTTGGTCCGTGGTGTCCCCGCACCCAGCGGGACAGCAGGCAATCAGGAG   795

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGGACTGAGTAGAACTGAGTAGAACTGAGTTGACGTG   180
           |||||||||||||||||||| | | | |||||||||||||||||||||||||||||||
Db   796 GGCCCAGTAAAGGCTGAGATGGAGATGAAGTGAGTAGAACTGAGTAGAACTGAGTTGACGTG   855

Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTCAGGAG   240
           ||||||| |||||| ||||||||||||||||||||||||||||||
Db   856 AGTTCCTCGGGAGTTTCCAGAGATGGGGGCCTGGAGGCCTCAGGAG   915

Qy   241 ATTCGTGGGGCTCCC   255
           ||| ||||||| |||
Db   916 ATTTGTGGGGNTCCC   930
US-09-251-835-1

RESULT 5
US-09-251-835-1
; Sequence 1, Application US/09251835A
; Patent No. 6261789
; GENERAL INFORMATION:
;   APPLICANT: Reiter, Robert B.
;   APPLICANT: Witte, Owen N.
;   TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
;   FILE REFERENCE: 30435.54USI2
;   CURRENT APPLICATION NUMBER: US/09/251,835A
;   CURRENT FILING DATE: 1999-02-17
;   PRIOR APPLICATION NUMBER: 08/814,279
;   PRIOR FILING DATE: 1997-03-10
;   PRIOR APPLICATION NUMBER: 09/038,261
;   PRIOR FILING DATE: 1998-03-10
;   PRIOR APPLICATION NUMBER: 60/071,141
;   PRIOR FILING DATE: 1998-01-12
;   PRIOR APPLICATION NUMBER: 60/074,675
;   PRIOR FILING DATE: 1998-02-13
;   PRIOR APPLICATION NUMBER: 09/038,261
;   PRIOR FILING DATE: 1998-03-10
;   PRIOR APPLICATION NUMBER: 09/203,939
;   PRIOR FILING DATE: 1998-12-02
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 998
;   TYPE: DNA

ORGANISM: HUMAN PSCA (hPSCA)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (543)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (580)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (584)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (604)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (608)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (615)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (636)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (640)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (646)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (697)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (926)
OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
US-09-251-835-1

Query Match   92.1%;   Score 238.6; DB 3; Length 998;
Best Local Similarity 95.7%; Pred. No. 1.6e-61;
Matches 244; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy   1 TAACCCTGTGTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA   60
           ||||||||||| ||||||| | ||||||||||||||||||||||||||||||| ||||
Db   676 TAACCCTGTGTTCAGGCACTTNTTCCCCCAGGAAGCCTTCCCTGCCACCCATTTATGA   735

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCGGGACAGCAGCACTCAGGAG   120
           |||||||||| |||||||||||||||||||||||||||||||||||| ||| |||||||
Db   736 ATTGAGCCAGGTTTGGTCCGTGGTGTCCCCGCACCCAGCGGGACAGCAGGCAATCAGGAG   795

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGGACTGAGTAGAACTGAGTAGAACTGAGTTGACGTG   180
           |||||||||||||||||||| | | | |||||||||||||||||||||||||||||||
Db   796 GGCCCAGTAAAGGCTGAGATGGAGATGAAGTGAGTAGAACTGAGTAGAACTGAGTTGACGTG   855

Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTCAGGAG   240
           ||||||| |||||| ||||||||||||||||||||||||||||||
Db   856 AGTTCCTCGGGAGTTTCCAGAGATGGGGGCCTGGAGGCCTCAGGAG   915

Qy   241 ATTCGTGGGGCTCCC   255
           ||| ||||||| |||
Db   916 ATTTGTGGGGNTCCC   930
US-09-251-835-1

RESULT 6
US-09-318-503-1
; Sequence 1, Application US/09318503A
; Patent No. 6261791
; GENERAL INFORMATION:
;   APPLICANT: Reiter, Robert B.
;   APPLICANT: Witte, Owen N.
;   TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
;   FILE REFERENCE: 30435.503A
;   CURRENT APPLICATION NUMBER: US/09/318,503A
;   CURRENT FILING DATE: 1999-05-25

Db 736 ATTGAGCCAGGTTTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCAATCAGGAG 795
         ||||||||||||| ||||||||||||||||||||||||||||||||||||| ||||||||
Qy 121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTGACGTG 180
         ||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||
Db 796 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTGACGTG 855

Qy 181 AGTTCCTGGGAGTCCAGAGATGGGGCCTGGAGCCTGGAGAAGGGGCCAGGCCTCAC 240
         ||||||||||||| |||||||||||||||||| |||||||||||||||||||||||
Db 856 AGTTCCTGGGAGTTCCAGAGATGGGGCCTGGAGGCCTGGAGAAGGGGCCAGGCCTCAC 915

Qy 241 ATTGGTGGGGCTCCC 255
         ||| ||||||| |||
Db 916 ATTTGTGGGGNTCCC 930

RESULT 7
US-09-038-261A-1
; Sequence 1, Application US/09038261A
; Patent No. 6267960
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54USU1
; CURRENT APPLICATION NUMBER: US/09/038,261A
; CURRENT FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
;
; SEQ ID NO 1
;   LENGTH: 998
;   TYPE: DNA
;   ORGANISM: HUMAN PSCA (hPSCA)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (543)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (580)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (584)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (604)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (608)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (615)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (636)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (640)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (646)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g, or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (697)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (926)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)

; EARLIER APPLICATION NUMBER: 08/814,279
; EARLIER FILING DATE: 1997-03-10
; EARLIER APPLICATION NUMBER: 60/071,141
; EARLIER FILING DATE: 1998-01-12
; EARLIER APPLICATION NUMBER: 60/074,675
; EARLIER FILING DATE: 1998-02-13
; EARLIER APPLICATION NUMBER: 09/038,261
; EARLIER FILING DATE: 1998-03-10
; EARLIER APPLICATION NUMBER: 09/203,939
; EARLIER FILING DATE: 1998-12-02
; EARLIER APPLICATION NUMBER: 09/251,835
; EARLIER FILING DATE: 1999-02-17
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
;
; SEQ ID NO 1
;   LENGTH: 998
;   TYPE: DNA
;   ORGANISM: HUMAN PSCA (hPSCA)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (543)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (580)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (584)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (604)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (608)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (615)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (636)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (640)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (646)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (697)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (926)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;

US-09-318-503-1

Query Match   92.1%; Score 238.6; DB 3; Length 998;
Best Local Similarity 95.7%; Pred. No. 1.6e-61;
Matches 244; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 60
          ||||||||| || |||||||| ||| |||| ||| |||||| |||| |||||| |||||
Db 676 TAACCCTGTGTTCAGGCACTTNTTCCCCCAGGAGCCTTCCCTGCCCACCCCCATTTATGA 735

Qy   61 CTTGAGCCAGGTCTGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 120

US-09-038-261A-1

Query Match   92.1%;   Score 238.6;   DB 3;   Length 998;
Best Local Similarity   95.7%;   Pred. No. 1.6e-61;
Matches 244;   Conservative   0;   Mismatches   11;   Indels   0;   Gaps   0;

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Qy     1 TAACCCTGCTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 60
         ||||||||| || |||||||| |||||||||||||||||||||||||||||||| |||||
Db   676 TAACCCTGTGTTCAGGCACTNTTCCCCAGGAAGCCTTCCCTGCCACCCCATTTATGA 735

Qy    61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCCACCCAGCAGGGGACAGGCACTCAGGAG 120
         |||||||||||| ||||||||||||||||||||||||||||||||||||||| ||||||
Db   736 ATTGAGCCAGGTTTGGTCCGTGGTGTCCCCGCCACCCAGCAGGGGACAGGCAATCAGGAG 795

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACAGAGTCGACGTG 180
         |||||||||||||||||||||||||||||||||||||||||||| |||||
Db   796 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACAGAGTTGACGTG 855

Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCTGGAGGAAGGGGCCAGGCCTCAC 240
         ||||||||||| ||||||||||||||||||||||||||||||||||||||||||
Db   856 AGTTCCTGGGAGTTTCCAGAGATGGGGCCTGGAGGCTGGAGGAAGGGGCCAGGCCTCAC 915

Qy   241 ATTCGTGGGGCTCCC 255
         ||| ||||||| |||
Db   916 ATTTGTGGGGNTCCC 930
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RESULT 8
US-09-564-329A-1
; Sequence 1, Application US/09564329A
; Patent No. 6541212
; GENERAL INFORMATION:
;   APPLICANT: Reiter, Robert E.
;   APPLICANT: Witte, Owen N.
;   APPLICANT: Saffran, Douglas C.
;   TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
;   FILE REFERENCE: 30435.54USI4
;   CURRENT APPLICATION NUMBER: US/09/564,329A
;   CURRENT FILING DATE: 2000-05-03
;   PRIOR APPLICATION NUMBER: 09/359,326
;   PRIOR FILING DATE: 1999-07-20
;   PRIOR APPLICATION NUMBER: 08/814,279
;   PRIOR FILING DATE: 1997-03-10
;   PRIOR APPLICATION NUMBER: 60/071,141
;   PRIOR FILING DATE: 1998-01-12
;   PRIOR APPLICATION NUMBER: 60/074,675
;   PRIOR FILING DATE: 1998-02-13
;   PRIOR APPLICATION NUMBER: 60/113,230
;   PRIOR FILING DATE: 1998-12-21
;   PRIOR APPLICATION NUMBER: 60/120,536
;   PRIOR FILING DATE: 1999-02-17
;   PRIOR APPLICATION NUMBER: 60/124,658
;   PRIOR FILING DATE: 1999-02-17
;   PRIOR APPLICATION NUMBER: 09/038,261
;   PRIOR FILING DATE: 1999-03-16
;   PRIOR APPLICATION NUMBER: 09/203,939
;   PRIOR FILING DATE: 1998-12-02
;   PRIOR APPLICATION NUMBER: 09/251,835
;   PRIOR FILING DATE: 1999-02-17
;   PRIOR APPLICATION NUMBER: 09/308,503
;   PRIOR FILING DATE: 1999-05-25
;   NUMBER OF SEQ ID NOS: 27
;   SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
;   LENGTH: 998
;   TYPE: DNA
;   ORGANISM: HUMAN PSCA (hPSCA)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (543)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (580)

;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (584)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (604)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (608)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (611)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (615)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (635)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (640)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (646)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (697)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (926)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
US-09-564-329A-1

Query Match   92.1%;   Score 238.6;   DB 4;   Length 998;
Best Local Similarity   95.7%;   Pred. No. 1.6e-61;
Matches 244;   Conservative   0;   Mismatches   11;   Indels   0;   Gaps   0;

```
Qy     1 TAACCCTGCTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 60
         ||||||||| || |||||||| |||||||||||||||||||||||||||||||| |||||
Db   676 TAACCCTGTGTTCAGGCACTNTTCCCCAGGAAGCCTTCCCTGCCACCCCATTTATGA 735

Qy    61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCCACCCAGCAGGGGACAGGCACTCAGGAG 120
         |||||||||||| ||||||||||||||||||||||||||||||||||||||| ||||||
Db   736 ATTGAGCCAGGTTTGGTCCGTGGTGTCCCCGCCACCCAGCAGGGGACAGGCAATCAGGAG 795

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACAGAGTCGACGTG 180
         |||||||||||||||||||||||||||||||||||||||||||| |||||
Db   796 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACAGAGTTGACGTG 855

Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCTGGAGGAAGGGGCCAGGCCTCAC 240
         ||||||||||| ||||||||||||||||||||||||||||||||||||||||||
Db   856 AGTTCCTGGGAGTTTCCAGAGATGGGGCCTGGAGGCTGGAGGAAGGGGCCAGGCCTCAC 915

Qy   241 ATTCGTGGGGCTCCC 255
         ||| ||||||| |||
Db   916 ATTTGTGGGGNTCCC 930
```

RESULT 9
US-09-729-995-3
; Sequence 3, Application US/09729995
; Patent No. 6426206
; GENERAL INFORMATION:
;   APPLICANT: WEI, Ming-Hui et al
;   TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
;   TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
;   TITLE OF INVENTION: THEREOF
;   FILE REFERENCE: CL000904
;   CURRENT APPLICATION NUMBER: US/09/729,995
;   CURRENT FILING DATE: 2000-12-06
;   NUMBER OF SEQ ID NOS: 4
;   SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 3
;   LENGTH: 29629
;   TYPE: DNA
;   ORGANISM: Human

US-09-729-995-3

Query Match   13.1%;   Score 34; DB 4; Length 29629;
Best Local Similarity   48.5%;   Pred. No. 1.9;
Matches   94; Conservative   0; Mismatches   100; Indels   0; Gaps   0;

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Qy    65  AGCCAGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCC  124
              ||||||||                     ||||||
Db  2708  AGCCAGCAGGCAGAAGTGACTGCCTCTGTTACCGGCAGGGATACTGAGGCCTAGAGGGCT  2767

Qy   125  CAGTAAAGGCTGAGATGAAGTGACTAGTAGAACTGGAGAACAAGAGTCCACGTGAGTT  184
              ||||||
Db  2768  GGCATGCGGCAGAACCGATGTGAATTCATTCAGGTCATAGGGACAGACTTGAGTTTGGGT  2827

Qy   185  CCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGCCAGGCCTCACATTC  244
              ||||||   ||||||
Db  2828  GTTGGCAATCCCGGTAGAGGGAACAGCAGCCAGGCAAAGGCATGTGGGACCCCAGCG  2887

Qy   245  GTGGGGCTCCCTGA  258
              |||||||
Db  2888  CTGTGGCTACCTTA  2901
```

RESULT 10
US-10-135-689-3
; Sequence 3, Application US/1013589
; Patent No. 6670162
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL000904DIV
; CURRENT APPLICATION NUMBER: US/10/135,689
; CURRENT FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 60/247,031
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 09/729,995
; PRIOR FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
;   LENGTH: 29629
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-135-689-3

Query Match   13.1%;   Score 34; DB 4; Length 29629;
Best Local Similarity   48.5%;   Pred. No. 1.9;
Matches   94; Conservative   0; Mismatches   100; Indels   0; Gaps   0;

```
Qy    65  AGCCAGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCC  124
              ||||||||                     ||||||
Db  2708  AGCCAGCAGGCAGAAGTGACTGCCTCTGTTACCGGCAGGGATACTGAGGCCTAGAGGGCT  2767

Qy   125  CAGTAAAGGCTGAGATGAAGTGACTAGTAGAACTGGAGAACAAGAGTCCACGTGAGTT  184
              |||| ||
Db  2768  GGCATGCGGCAGAACCGATGTGAATTCATTCAGGTCATAGGGACAGACTTGAGTTTGGGT  2827

Qy   185  CCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGCCAGGCCTCACATTC  244
              ||||||   ||||||
Db  2828  GTTGGCAATCCCGGTAGAGGGAACAGCAGCCAGGCAAAGGCATGTGGGACCCCAGCG  2887

Qy   245  GTGGGGCTCCCTGA  258
              |||||||
Db  2888  CTGTGGCTACCTTA  2901
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RESULT 11
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:

APPLICANT: DORNER, F.
APPLICANT: SCHEIFLINGER, F.
APPLICANT: FALKNER, F. G.
TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 1800 Diagonal Road, Suite 500
CITY: Alexandria
STATE: VA
COUNTRY: USA
ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/935,313
FILING DATE:
APPLICATION NUMBER: EP 91 114 300.6
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/114 IMMU
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)836-9300
TELEFAX: (703)683-4109
TELEX: 899149
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 7218 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: pTZgpt-F1s
US-08-232-463-14

Query Match   12.7%;   Score 32.8; DB 1; Length 7218;
Best Local Similarity   2.8%;   Pred. No. 2.8;
Matches   4; Conservative   94; Mismatches   46; Indels   0; Gaps   0;

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Qy    98  AGCAGGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGA  157
              :: ::::::: ::::::: :::::: :: :::::::::::::::::::::RRRRRRRR
Db  1204  RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR  1145

Qy   158  ACTGGAGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCC  217
              :: ::::::: :::::: :::: :::: :::: ::  :::: ::::
Db  1144  RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR  1085

Qy   218  TGGAGGAAGGGGCCAGGCCTCACA  241
              :: ::: :::
Db  1084  RRRRRRRRRRRRRRRRRATCGCA  1061
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RESULT 12
US-09-851-896-3
; Sequence 3, Application US/09851896
; Patent No. 6410325
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Susan M. Freier
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF PHOSPHOLIPASE A2, GROUP VI (CA2+-INDEPEN
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0220
; CURRENT APPLICATION NUMBER: US/09/851,896

; CURRENT FILING DATE: 2001-05-08
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 3
; LENGTH: 70000
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-851-896-3

Query Match   12.6%;   Score 32.6; DB 4; Length 70000;
Best Local Similarity   58.9%;   Pred. No. 6.4;
Matches   56;   Conservative   0;   Mismatches   39;   Indels   0;   Gaps   0;

Qy   17 CACCCTTCCCCAGGAAGCCTTCCTGCCCACCCATCTATGACTTGAGCTTGAGCTCTGG 76
              ||| |||| || |||| || | ||| | |||||| | ||| || |||| |||
Db   41466 CTCCCTAACCCAGCCCAGCGCTGATCTGAACAGCCCCCCGATGGCTTCAGTGCTCCTTGG 41525

Qy   77 TCCGTGGTGTCCCCGCACCCAGCAGGGACAGGC 111
              | || | ||||||| |||| ||| || ||
Db   41526 TTTCTTGTGTGCCCAGCTCAAAGCCTGGGAAATGC 41560

RESULT 13
US-09-621-976-17202
; Sequence 17202, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 17202
; LENGTH: 364
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-621-976-17202

Query Match   12.3%;   Score 31.8; DB 4; Length 364;
Best Local Similarity   15.4%;   Pred. No. 2.2;
Matches   27;   Conservative   78;   Mismatches   70;   Indels   0;   Gaps   0;

Qy   75 GGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGGCACTCAGGAGGGCCCAGTAAAGGC 134
              : : : :: : ||| : :::| : : : ::|: : ::|: ::| :::: :
Db   2 RRYSGSMKGRARCCGCCKGAGYSGMCKSSRSSYGRRSSCCGSMGWNSGCSCSKRSWSRCRC 61

Qy   135 TGAGATGAAGTGGACTGGAGAACTGGAGGACAAGAGTCGACGTGAGTCCTGGGAGTC 194
              |: ::| :::| | ::| | :: ::| : || : : :::: : : ::: :|: :
Db   62 MKSMWSWMMYMRSMKYXRSTCASCKYKGGKVACMTCWSTGAMYRYMASYGWCYSYMARYY 121

Qy   195 TCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGG 249
              |||: ::| : :: :::: | | :::: : :::: : :
Db   122 TCYSKYRMWKYCYRKYRSRGMCCMWCAGSGMCYSRSAGSRYSKKGSRGRWYWKKG 176

RESULT 14
US-09-343-494-2
; Sequence 2, Application US/09343494
; Patent No. 6413741
; GENERAL INFORMATION:
; APPLICANT: Jegla, Timothy J.
; APPLICANT: Wickenden, Alan
; APPLICANT: ICAgen, Incorporated
; TITLE OF INVENTION: Human Elk, a Voltage-Gated Potassium Channel Subunit
; FILE REFERENCE: 018512-001320US
; CURRENT APPLICATION NUMBER: US/09/343,494
; CURRENT FILING DATE: 1999-06-30
; EARLIER APPLICATION NUMBER: US 60/091,469
; EARLIER FILING DATE: 1998-07-01

; EARLIER APPLICATION NUMBER: US 60/116,621
; EARLIER FILING DATE: 1999-01-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 3249
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(3249)
; OTHER INFORMATION: hElk
US-09-343-494-2

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; Patent No. 6326168
; GENERAL INFORMATION:
; APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.
; TITLE OF INVENTION: A novel potassium channel protein
; FILE REFERENCE: Y9903-PCT
; CURRENT APPLICATION NUMBER: US/09/600,776
; CURRENT FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: JP P1998-011434
; PRIOR FILING DATE: 1998-01-23
; PRIOR APPLICATION NUMBER: JP P1998-346198
; PRIOR FILING DATE: 1998-12-04
; NUMBER OF SEQ ID NOS: 12
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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
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; LOCATION: (6)..(3257)
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Best Local Similarity   52.7%;   Pred. No. 4.3;
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Mon Sep 20 09:12:17 2004

us-09-079-874-9.rni

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 18, 2004, 06:17:58 ; Search time 194.108 seconds
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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3	259	100.0	960	9	US-09-905-088B-17	Sequence 17, Appl
4	259	100.0	960	9	US-09-905-291A-17	Sequence 17, Appl
5	259	100.0	960	9	US-09-902-853-17	Sequence 17, Appl
6	259	100.0	960	9	US-09-907-824-17	Sequence 17, Appl
7	259	100.0	960	9	US-09-907-841-17	Sequence 17, Appl
8	259	100.0	960	10	US-09-904-011-17	Sequence 17, Appl
9	259	100.0	960	10	US-09-906-742-17	Sequence 17, Appl
10	259	100.0	960	10	US-09-906-838-17	Sequence 17, Appl
11	259	100.0	960	10	US-09-907-613-17	Sequence 17, Appl
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ALIGNMENTS

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; Sequence 9, Application US/09080140
; Publication No. US20040018553A1
GENERAL INFORMATION:
  APPLICANT: BILLING-MEDEL, PATRICIA
  APPLICANT: COHEN, MAURICE
  APPLICANT: COLPITTS, TRACEY L.
  APPLICANT: FRIEDMAN, PAULA N.
  APPLICANT: GORDON, JULIAN
  APPLICANT: GRANADOS, EDWARD N.
  APPLICANT: HODGES, STEVEN C.
  APPLICANT: KLASS, MICHAEL R.
  APPLICANT: KRATOCHVIL, JON D.
  APPLICANT: ROBERTS-RAPP, LISA
  APPLICANT: RUSSELL, JOHN C.
  APPLICANT: STROUPE, STEPHEN D.
  TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
  TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
  NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
  ADDRESSEE: Abbott Laboratories
  STREET: 100 Abbott Park Road
  CITY: Abbott Park
  STATE: IL
  COUNTRY: USA
  ZIP: 60064-3500
COMPUTER READABLE FORM:
  MEDIUM TYPE: Diskette
  COMPUTER: IBM Compatible
  OPERATING SYSTEM: DOS
  SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA: US/09/080,140
  APPLICATION NUMBER:
  FILING DATE:
  CLASSIFICATION:
PRIOR APPLICATION DATA:

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;   APPLICATION NUMBER: 08/856,653
;   FILING DATE: 15-MAY-1997
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Becker, Cheryl L.
;   REGISTRATION NUMBER: 35,441
;   REFERENCE/DOCKET NUMBER: 6105.US.P1
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 847/935-1729
;   TELEFAX: 847/938-2623
;   TELEX:
; INFORMATION FOR SEQ ID NO: 9:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 259 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
US-09-080-140-9

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; Sequence 17, Application US/09909320
; Patent No. US2002013240A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
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;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERNCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/909,320
;   CURRENT FILING DATE: 2002-01-04
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
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;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
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;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28855
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
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; Patent No. US2002016037A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tunas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
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; Patent No. US2002146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tunas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICANT APPLICATION NUMBER: US/09/909,088B
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
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; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
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; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-088B-17
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;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
;   SEQ ID NO 17
;     LENGTH: 960
;     TYPE: DNA
;     ORGANISM: Homo sapiens
US-09-905-291A-17

Query Match             100.0%;  Score 259;  DB 9;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 2.2e-69;
Matches   259;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TAACCCTGTCTCAGGCACCTTCCCTGCCACCCATCTATGA   60
              ||||||||||||||||||||||||||||||||||||||||
Db        644 TAACCCTGTCTCAGGCACCTTCCCTGCCACCCATCTATGA  703

Qy         61 CTTGAGCCAGTCTCGTCCGTGGTCCCCGCACCCAGCAGGGACACGCACTCAGGAG  120
              ||||||||||||||||||||||||||||||||||||||||
Db        704 CTTGAGCCAGTCTCGTCCGTGGTCCCCGCACCCAGCAGGGACACGCACTCAGGAG  763

Qy        121 GGCCCAGTAAAGGCTGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC  180
              ||||||||||||||||||||||||||||||||||||||||
Db        764 GGCCCAGTAAAGGCTGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC  823

Qy        181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC  240
              ||||||||||||||||||||||||||||||||||||||||
Db        824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC  883

Qy        241 ATTCGTGGGGCTCCCTGAA  259
              |||||||||||||||||||
Db        884 ATTCGTGGGGCTCCCTGAA  902
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RESULT 5
US-09-902-853-17
; Sequence 17, Application US/09902853
; Publication No. US20020192259A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/902,853
;   CURRENT FILING DATE: 2001-07-10
;   PRIOR APPLICATION NUMBER: US/09/665,350
;   PRIOR FILING DATE: 2000-09-18
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
;   SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-902-853-17

Query Match   100.0%; Score 259; DB 9; Length 960;
Best Local Similarity   100.0%; Pred. No. 2.2e-69;
Matches   259; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 TAACCCTGTCTCAGGCACCTTCCCTGCCACCCATCTATGA   60
              ||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGTCTCAGGCACCTTCCCTGCCACCCATCTATGA 703

Qy   61 CTTGAGCCAGTCTCGGTCCGTGGTCCCCGCACCCAGCAGGGACACGCACTCAGGAG 120
              ||||||||||||||||||||||||||||||||||||||||
Db   704 CTTGAGCCAGTCTCGGTCCGTGGTCCCCGCACCCAGCAGGGACACGCACTCAGGAG 763

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGACTGAGTGAGATGAAGT GGAGACAAGAGTCGACGTG 180
              ||||||||||||||||||||||||||||||||||||||||
Db   764 GGCCCAGTAAAGGCTGAGATGAAGTGACTGAGTGAGATGAAGTGGAGACAAGAGTCGACGTG 823
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Qy  181 AGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  824 AGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy  241 ATTCGTGGGGCTCCCTGAA 259
        |||||||||||||||||||
Db  884 ATTCGTGGGGCTCCCTGAA 902
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RESULT 6
US-09-907-824-17
; Sequence 17, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-907-824-17

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Query Match             100.0%;  Score 259; DB 9;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 2.2e-69;
Matches  259;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy    1 TAACCCTGTGCTCAGGCACCTCTTCCCCGAGGAGCCTTCCTGCCCACCCCCATCTATGA 60
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  644 TAACCCTGTGCTCAGGCACCTCTTCCCCGAGGAGCCTTCCTGCCCACCCCCATCTATGA 703

Qy   61 CTTGAGCCAGTCTGTCCGTGGTGTCCCCGCACCAGGGGACCAGGCACTCAGGAG 120
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  704 CTTGAGCCAGTCTGTCCGTGGTGTCCCCGCACCAGGGGACCAGGCACTCAGGAG 763

Qy  121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACCAAGAGTCGACGTG 180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACCAAGAGTCGACGTG 823

Qy  181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAGGGGCCAGGCCTCAC 240
        |||||||||||||||||||||||||||||||||||||||||||||||||||
Db  824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAGGGGCCAGGCCTCAC 883

Qy  241 ATTCGTGGGGCTCCCTGAA 259
        |||||||||||||||||||
Db  884 ATTCGTGGGGCTCCCTGAA 902
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RESULT 7
US-09-907-841-17
; Sequence 17, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841

; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-841-17

Query Match   100.0%;   Score 259;   DB 9;   Length 960;
Best Local Similarity   100.0%;   Pred. No. 2.2e-69;
Matches   259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

```
Qy     1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA    60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA   703

Qy    61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCCACCAGGAGGGGACACGGGACACTCAGGAG   120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCCACCAGGAGGGGACAGGGACACTCAGGAG   763

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTCGAGTAGAACTGGAGGACAAGAGTCGACGTG   180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   764 GGCCCAGTAAAGGCTGAGATGAAGTCGAGTAGAACTGGAGGACAAGAGTCGACGTG   823

Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGGAGGGGCCAGGCCTCAC   240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   824 AGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGGAGGGGCCAGGCCTCAC   883

Qy   241 ATTCGTGGGGCTCCCTGAA   259
           |||||||||||||||||||
Db   884 ATTCGTGGGGCTCCCTGAA   902
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RESULT 8
US-09-904-011-17
; Sequence 17, Application US/09904011
; Publication No. US2003003530A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-904-011-17

Query Match   100.0%;   Score 259;   DB 10;   Length 960;
Best Local Similarity   100.0%;   Pred. No. 2.2e-69;
Matches   259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

```
Qy     1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCATCATGA    60
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCATCATGA   703

Qy    61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCAGCAGGGGACAGGCACTCAGGAG   120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCACCAGCAGGGGACAGGCACTCAGGAG   763

Qy   121 GGCCCAGTAAAGCTAAAGGCTAGATGAAGTAGAACTGGAGGACAAGAGTCGACGTG   180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db   764  GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG  823

Qy   181  AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGGGGGCCAGGCCTCAC  240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   824  AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGGGGGCCAGGCCTCAC  883

Qy   241  ATTCGTGGGGCTCCCTGAA  259
          |||||||||||||||||||
Db   884  ATTCGTGGGGCTCCCTGAA  902
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RESULT 9
US-09-906-742-17
; Sequence 17, Application US/09906742
; Publication No. US2003023054A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,742
; CURRENT APPLICATION DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR APPLICATION FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR APPLICATION FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR APPLICATION FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR APPLICATION FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR APPLICATION FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR APPLICATION FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR APPLICATION FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR APPLICATION FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR APPLICATION FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR APPLICATION FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR APPLICATION FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR APPLICATION FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR APPLICATION FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565

; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-906-742-17

Query Match   100.0%;   Score 259; DB 10;   Length 960;
Best Local Similarity 100.0%;   Pred. No. 2.2e-69;
Matches 259; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 TAACCCTGTGTCAGGCACCTTCCTGCCCAGGAAGCCTTCCCTGCCACCCATCTATGA   60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGTGTCAGGCACCTTCCTGCCCAGGAAGCCTTCCCTGCCACCCATCTATGA 703

Qy   61 CTTGAGCCAGTGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   704 CTTGAGCCAGTGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 763

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 823

Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGGGGGCCAGGCCTCAC 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGGGGGCCAGGCCTCAC 883

Qy   241 ATTCGTGGGGCTCCCTGAA 259
          |||||||||||||||||||
Db   884 ATTCGTGGGGCTCCCTGAA 902
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RESULT 10
US-09-906-838-17
; Sequence 17, Application US/09906838
; Publication No. US2003027143A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same

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;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/906,838
;   CURRENT FILING DATE: 2001-07-16
;   PRIOR APPLICATION NUMBER: 09/665,350
;   PRIOR FILING DATE: 2000-09-18
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-906-838-17

Query Match            100.0%;  Score 259;  DB 10;  Length 960;
Best Local Similarity  100.0%;  Pred. No. 2.2e-69;
Matches  259;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy      1  TAACCCTGTGCTCAGGCACCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA  60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    644  TAACCCTGTGCTCAGGCACCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA  703

Qy     61  CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCAGCAGGGACAGCACTCAGGAG  120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    704  CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCACCGACCAGCACTCAGGAG  763

Qy    121  GGCCCAGTAAAGCTGAGATGAAGTGGACTGAGTAGAACTGGAGACAAGAGTCGACGTG  180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    764  GGCCCAGTAAAGCTGAGATGAAGTGGACTGAGTAGAACTGGAGACAACAGTCGACGTG  823

Qy    181  AGTTCCTGGGAGTCTTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC  240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    824  AGTTCCTGGGAGTCTTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC  883

Qy    241  ATTCGTGGGGCTCCCTGAA  259
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Db    884  ATTCGTGGGGCTCCCTGAA  902

RESULT 11
US-09-907-613-17
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; Sequence 17, Application US/09907613
; Publication No. US20030027145A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/907,613
;   CURRENT FILING DATE: 2001-07-17
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-907-613-17
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Query Match   100.0%;   Score 259; DB 10;   Length 960;
Best Local Similarity 100.0%;   Pred. No. 2.2e-69;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy    1 TAACCCTGTGCTCAGCCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
        ||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||||
Db  644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 763

Qy  121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGACAAGAGTCGACGTG 180
        ||||||||||||||||||||||||||||||||||||||||||||||||
Db  764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGACAAGAGTCGACGTG 823

Qy  181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGAGGAGGAGGGGCCAGGCCTCAC 240
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGAGGAGGAGGGGCCAGGCCTCAC 883

Qy  241 ATTCGTGGGGCTCCCTGAA 259
        |||||||||||||||||||
Db  884 ATTCGTGGGGCTCCCTGAA 902
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RESULT 12
US-09-907-942-17
; Sequence 17, Application US/09907942
; Publication No. US2003027146A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,942
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-942-17

Query Match   100.0%;   Score 259; DB 10;   Length 960;
Best Local Similarity 100.0%;   Pred. No. 2.2e-69;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    1 TAACCCTGTGCTCAGCCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
        ||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||||
Db  644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  704 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACAGGCACTCAGGAG 763

Qy  121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGACAAGAGTCGACGTG 180
        ||||||||||||||||||||||||||||||||||||||||||||||||
Db  764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGACAAGAGTCGACGTG 823

Qy  181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGAGGAGGAGGGGCCAGGCCTCAC 240
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGAGGAGGAAGGGGCCAGGCCTCAC 883

Qy  241 ATTCGTGGGGCTCCCTGAA 259
        |||||||||||||||||||
Db  884 ATTCGTGGGGCTCCCTGAA 902
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RESULT 13
US-09-904-859-17
; Sequence 17, Application US/09904859
; Publication No. US2003036060A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen.
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.

```
Db   764  GGCCCAGTAAAGCTGAGATGAAGTGACTGAGTAGAACTGAGGACAAGAGAGTCGACGTG  823
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   181  AGTTCCTGGAGTCTCCAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTTCAC   240
               ||||||||||||||||| |||||||||||||||||||||||||||||||||||||||
Db   824  AGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTTCAC 883

Qy   241  ATTCGTGGGGCTCCCTGAA  259
               |||||||||||||||||||
Db   884  ATTCGTGGGGCTCCCTGAA  902
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RESULT 14
US-09-909-204-17
; Sequence 17, Application US/09909204
; Publication No. US2003036061A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,204
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095

; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,859
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
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; PRIOR APPLICATION NUMBER: PCT/US99/21547
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; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
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; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30099
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-904-859-17

Query Match   100.0%;   Score 259; DB 10; Length 960;
Best Local Similarity 100.0%;   Pred. No. 2.2e-69;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA   60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   644 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA   703

Qy   61 CTTGAGCCAGTTCTGGTCCGTGGTGTCCCCCGCACCAGGAGGGGACCAGGCACTCAGGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   704 CTTGAGCCAGTTCTGGTCCGTGGTGTCCCCCGCACCAGGAGGGGACCAGGCACTCAGGAG 763

Qy   121 GGCCCAGTAAAGCTGAGATGAAGTGACTGAGTAGAACTGAGGACAAGAGAGTCGACGTG   180
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; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-204-17

Query Match   100.0%;   Score 259;   DB 10;   Length 960;
Best Local Similarity 100.0%; Pred. No. 2.2e-69;
Matches 259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
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Db   644 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 703

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACACGGCACTCAGGAG 120
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Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTCGAGGACAAGAGTCGACGTG 180
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Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
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Db   824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy   241 ATTCGTGGGGCTCCCTGAA 259
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Db   884 ATTCGTGGGGCTCCCTGAA 902

RESULT 15
US-09-904-820-17
; Sequence 17, Application US/09904820
; Publication No. US2003003094A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,820

; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-904-820-17

Query Match   100.0%;   Score 259;   DB 10;   Length 960;
Best Local Similarity 100.0%; Pred. No. 2.2e-69;
Matches 259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
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Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACACGGCACTCAGGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db   764 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTCGAGGACAAGAGTCGACGTG 823

Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 240
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Db   824 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 883

Qy   241 ATTCGTGGGGCTCCCTGAA 259
          |||||||||||||||||||
Db   884 ATTCGTGGGGCTCCCTGAA 902

Search completed: September 18, 2004, 20:20:24
Job time : 194.108 secs

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                GenCore version 5.1.6
         Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:    September 18, 2004, 05:54:35 ; Search time 1184.38 Seconds
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Title:         US-09-079-874-9
Perfect score: 259
Sequence:      1 TAACCCTGTGCTCAGGCACC........CATTCGTGTGGGGCTCCCTGAA 259

Scoring table: IDENTITY_NUC
               Gapop 10.0 , Gapext 1.0

Searched:      27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters:    55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

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               7:  em_estro:*
               8:  em_htc:*
               9:  em_est1:*
               10: gb_est2:*
               11: gb_htc:*
               12: gb_est3:*
               13: gb_est4:*
               14: gb_est5:*
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               16: em_estom:*
               17: em_gss_hum:*
               18: em_gss_inv:*
               19: em_gss_pln:*
               20: em_gss_vrt:*
               21: em_gss_fun:*
               22: em_gss_mam:*
               23: em_gss_mus:*
               24: em_gss_pro:*
               25: em_gss_rod:*
               26: em_gss_phg:*
               27: em_gss_vrl:*
               28: gb_gss1:*
               29: gb_gss2:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Length	DB	ID	Description
c 1	259	100.0	371	10	BF446339	BF446339 7p35h12.x
c 2	259	100.0	373	10	AW338346	AW338346 xw70a09.x
c 3	259	100.0	381	12	BM788964	BM788964 K-EST0068
c 4	259	100.0	415	9	AI017464	AI017464 ou23c03.x

c	No	Score	% Match	Length	DB	ID	Description
c	5	259	100.0	433	9	AI094278	AI094278 qa72e07.x
c	6	259	100.0	451	9	AI936226	AI936226 wo63e01.x
c	7	259	100.0	476	12	BQ012145	BQ012145 UI-1-BC1p
c	8	259	100.0	490	9	AI139599	AI139599 qc57d11.x
c	9	259	100.0	503	12	BM975759	BM975759 UI-CF-EN1
c	10	259	100.0	508	10	AW205435	AW205435 UI-H-BI1-
c	11	259	100.0	510	9	AA525838	AA525838 ni93a06.s
c	12	259	100.0	592	12	BM783852	BM783852 K-EST0061
c	13	259	100.0	700	13	BU621296	BU621296 UI-H-FL1-
c	14	259	100.0	1024	8	BC023582	BC023582 Homo sapi
c	15	258	99.6	343	10	AW134915	AW134915 UI-H-BI1-
c	16	258	99.6	357	14	H96372	H96372 yw61h10.s1
c	17	255.8	98.8	360	9	AA543070	AA543070 nf96607.s
c	18	255.8	98.8	420	9	AI597844	AI597844 tu53b02.x
c	19	255.8	98.8	571	12	BI763933	BI763933 603049810
c	20	255.8	98.8	599	10	AW973274	AW973274 EST385372
c	21	255.8	98.8	599	12	BQ019300	BQ019300 UI-H-DT1-
c	22	255.8	98.8	682	14	CB850631	CB850631 UI-CF-EN1
c	23	255.8	98.8	738	12	BM980194	BM980194 UI-CF-EN1
c	24	255.8	98.8	738	12	BM980828	BM980828 UI-CF-EN1
c	25	255.8	98.8	743	12	BM980213	BM980213 UI-CF-EN1
c	26	255.8	98.8	990	11	BC048808	BC048808 Homo sapi
c	27	254.8	98.4	354	9	AI685668	AI685668 tt89f10.x
c	28	254.2	98.1	458	9	AI685741	AI685741 tu37f01.x
c	29	251.8	97.2	531	12	BI761129	BI761129 603043613
c	30	251	96.9	345	9	AI221540	AI221540 qg15b06.x
c	31	248	95.8	523	12	BI759495	BI759495 603046876
c	32	247.8	95.7	517	9	AI677792	AI677792 wc80d09.x
c	33	247	95.4	409	9	AA630584	AA630584 ac11b06.s
c	34	246.4	95.1	503	9	AA446964	AA446964 zw85f03.s
c	35	245.4	94.7	371	9	AA662078	AA662078 ns58b06.s
c	36	245.4	94.7	549	14	N32614	N32614 yw95e06.s1
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c	38	242.6	93.7	911	13	BU194301	BU194301 AGENCOURT
c	39	242.2	93.5	752	9	AW078639	AW078639 xb02c11.x
c	40	242	93.4	314	9	AI391510	AI391510 tg03d07.x
c	41	234.4	90.5	281	9	AI220820	AI220820 qg07b02.x
c	42	234	90.3	293	14	CB050989	CB050989 NISC_gj21
c	43	234	90.3	303	14	CB050988	CB050988 NISC_gj21
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ALIGNMENTS

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LOCUS       BF446339  7p35h12.x1 NCI_CGAP_Pr28   371 bp  mRNA   linear   EST 01-DEC-2000
DEFINITION  7p35h12.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3647879 3',
            mRNA sequence.
ACCESSION   BF446339
VERSION     BF446339.1  GI:1151477
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 371)
AUTHORS     NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE       National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL     Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R.
            Emmert-Buck, M.D., Ph.D.
            cDNA Library Preparation: M. Bento Soares, Ph.D.
            cDNA Library Arrayed by: Greg Lennon, Ph.D.
            DNA Sequencing by: Washington University Genome Sequencing Center
            Clone distribution: NCI-CGAP clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL, send email to:
            info@image.llnl.gov
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                     /clone="IMAGE:3647879"
                     /sex="male"
                     /dev_stage="adult"
                     /lab_host="DH10B"
                     /clone_lib="NCI_CGAP_Pr28"
                     /note="Organ: prostate; Vector: pT7T3D-Pac (Pharmacia)
                     with a modified polylinker; Plasmid DNA from the
                     normalized library NCI_CGAP_Pr22 was prepared, and ss
                     circles were made in vitro. Following HAP purification,
                     this DNA was used as tracer in a subtractive hybridization
                     reaction. The driver was PCR-amplified cDNAs from a pool
                     of 5,000 clones made from the same library (cloneIDs
                     985608-986759, 1101192-1101959, and 1217928-1220615).
                     Subtraction by Bento Soares and M. Fatima Bonaldo."

ORIGIN
     Query Match   100.0%; Score 259; DB 10; Length 371;
     Best Local Similarity 100.0%; Pred. No. 5.3e-54;
     Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TAACCCTGTCTCAGGCACCTCTTCCCCAGGAAGCCTTCCTGCCACCCATCTATGA 60
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Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGGACCCAGGACCAGGCACTCAGGAG 120
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Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGACAAGAGTCGACGTG 180
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Qy   241 ATTCGTGGGGCTCCCTGAA 259
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Db   70 ATTCGTGGGGCTCCCTGAA 52

RESULT 2
AW338346/c
LOCUS   AW338346   373 bp   mRNA   linear   EST 31-JAN-2000
DEFINITION xw70a09.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2833336 3',
            mRNA sequence.
ACCESSION   AW338346
VERSION   AW338346.1 GI:6834972
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 373)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Life Technologies catalog #: 11548-013
            DNA Sequencing by: Washington University Genome Sequencing Center
            Clone distribution: NCI-CGAP clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            www-bio.llnl.gov/bbrp/image/image.html
            Seq primer: -40UP from Gibco.
FEATURES   Location/Qualifiers

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                     /lab_host="DH10B"
                     /clone_lib="NCI_CGAP_Pan1"
                     /note="Organ: pancreas; Vector: pCMV-SPORT6; Site 1: SalI;
                     Site 2: NotI; Cloned unidirectionally. Primer: Oligo dT.
                     Average insert size 1.72 kb. Life Technologies catalog #:
                     11548-013"

ORIGIN
     Query Match   100.0%; Score 259; DB 10; Length 373;
     Best Local Similarity 100.0%; Pred. No. 5.3e-54;
     Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TAACCCTGTCTCAGGCACCTCTTCCCCAGGAAGCCTTCCTGCCACCCATCTATGA 60
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Qy   241 ATTCGTGGGGCTCCCTGAA 259
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Db   69 ATTCGTGGGGCTCCCTGAA 51

RESULT 3
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LOCUS   BM788964   381 bp   mRNA   linear   EST 05-MAR-2002
DEFINITION K-EST0068259 S19N665307 Homo sapiens cDNA clone S19N665307-2-H07
            5', mRNA sequence.
ACCESSION   BM788964
VERSION   BM788964.1 GI:19137196
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 381)
AUTHORS   Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
            Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
            Kim,Y.S.
TITLE   21C Frontier Korean EST Project 2001
JOURNAL   Unpublished (2002)
COMMENT   Contact: Kim YS
            Genome Research Center
            Korea Research Institute of Bioscience & Biotechnology
            52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
            Tel: +82-42-860-4470
            Fax: +82-42-860-4409
            Email: yongsung@mail.kribb.re.kr
            Plate: 2 row: H column: 07
            High quality sequence stop: 381.
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/lab_host="Top10F'"
/clone_lib="S19N665307"
/note="Organ: Stomach; Vector: pCNS; Site 1: EcoRI;
Site_2: NotI; The poly (A)+ RNA was dephosphorylated with
bacterial alkaline phosphatase (BAP) and then decapped
with tabacco acid pyrophosphatase (TAP). The decapped
intact mRNA was ligated with DNA-RNA linker including EcoR
I site by treatment of T4 RNA ligase and the first strand
cDNA was synthesized from oligo dT-selected mRNA by
priming with dT-tailed vector. The dT-tailed vector was
adjusted to have about 60nt. The cDNA vector was
circularized with E. coli DNA ligase after digestion of
EcoRI which site is also included in vector. An RNA strand
converted to a DNA strand by Okayama-Berg method. The
obtained cDNA vectors were used for transformation of
competent cells E. coli Top10F' by electroporation method.
The cDNA libraries constructed by this method are
full-length enriched cDNA library."

ORIGIN

Query Match   100.0%;   Score 259; DB 12;   Length 381;
Best Local Similarity 100.0%;   Pred. No. 5.4e-54;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA 60
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Qy 121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGGACTGAGTGGACTAGAAGTGACGTG 180
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Qy 241 ATTCGTGGGGCTCCCTGAA 259
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Db 306 ATTCGTGGGGCTCCCTGAA 324

RESULT 4
AI017464/c
LOCUS   AI017464   415 bp   mRNA   linear   EST 27-AUG-1998
DEFINITION ou23c03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone
            IMAGE:1627108 3', mRNA sequence.
ACCESSION   AI017464
VERSION   AI017464.1 GI:3231800
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 415)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            This clone is available royalty-free through LLNL ; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            Insert Length: 850   Std Error: 0.00
            Seq primer: -40m13 fwd. ET from Amersham
            High quality sequence stop: 364.
FEATURES   Location/Qualifiers
source   1..415
                /organism="Homo sapiens"
                /mol_type="mRNA"

/db_xref="taxon:9606"
/clone="IMAGE:1627108"
/lab_host="DH10B"
/clone_lib="Soares_NFL_T_GBC_S1"
/note="Organ: pooled; Vector: pT7T3D-Pac (Pharmacia) with
a modified polylinker; Site 1: Not I; Site 2: Eco RI;
Equal amounts of plasmid DNA from three normalized
libraries (fetal lung NbHL19W, testis NHT, and B-cell
NCI_CGAP GCB1) were mixed, and ss circles were made in
vitro. Following HAP purification, this DNA was used as
tracer in a subtractive hybridization reaction. The driver
was PCR-amplified cDNAs from pools of 5,000 clones made
from the same 3 libraries. The pools consisted of
I.M.A.G.E. clones 297480-302087, 682632-687239,
726408-728871, and 729096-731399. Subtraction by Bento
Soares and M. Fatima Bonaldo. "

ORIGIN

Query Match   100.0%;   Score 259; DB 9;   Length 415;
Best Local Similarity 100.0%;   Pred. No. 5.6e-54;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA 60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 310 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA 251

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGGACCAGGACACGGGACACTCAGGAG 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 250 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGGACCAGGACACGGGACACTCAGGAG 191

Qy 121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGTGAGTGACGTG 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 190 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGTGAGTGACGTG 131

Qy 181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGAGGAAGGGGCCAGGCCTCAC 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 130 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGAGGAAGGGGCCAGGCCTCAC 71

Qy 241 ATTCGTGGGGCTCCCTGAA 259
          |||||||||||||||||
Db   70 ATTCGTGGGGCTCCCTGAA 52

RESULT 5
AI094278/c
LOCUS   AI094278   433 bp   mRNA   linear   EST 18-AUG-1998
DEFINITION qa72e07.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone
            IMAGE:1692324 3', mRNA sequence.
ACCESSION   AI094278
VERSION   AI094278.1 GI:3433254
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 433)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            This clone is available royalty-free through LLNL ; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            Seq primer: -40m13 fwd. ET from Amersham.
FEATURES   Location/Qualifiers
source   1..433
                /organism="Homo sapiens"
                /mol_type="mRNA"
                /db_xref="taxon:9606"
                /clone="IMAGE:1692324"
                /sex="unknown"
                /dev_stage="19 weeks"

/lab_host="DH10B (ampicillin resistant)"
/clone_lib="Soares_fetal_heart NbHH19W"
/note="Organ: heart; Vector: pT7T3D (Pharmacia) with a
modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCGAAGTGGGAGCGGCCGCACTTTTTTTTTTTTTTTTT 3'],
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT7T3 vector
(Pharmacia). Library went through one round of
normalization to a Cot = 5. Library constructed by
M.Fatima Bonaldo. This library was constructed from the
same fetus as the fetal lung library, Soares fetal lung
NbHL19W."

ORIGIN

Query Match   100.0%;   Score 259;   DB 9;   Length 433;
Best Local Similarity   100.0%;   Pred. No. 5.7e-54;
Matches 259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

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Qy    1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA   60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  309 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA  250

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCAGGACAGGCACTCAGGAG      120
          |||||||||||||||||||||||||||||||||||||||||||||||||||
Db  249 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCAGGACAGGCACTCAGGAG      190

Qy  121 GGCCCAGTAAAGGCTGAGATGAAGCTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG  180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  189 GGCCCAGTAAAGGCTGAGATGAAGCTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG  130

Qy  181 AGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC         240
          |||||||||||||||||||||||||||||||||||||||||||||||||
Db  129 AGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC          70

Qy  241 ATTCGTGGGGCTCCCTGAA  259
          |||||||||||||||||||
Db   69 ATTCGTGGGGCTCCCTGAA   51
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RESULT 6
AI936226/c
LOCUS   AI936226   451 bp   mRNA   linear   EST 06-SEP-1999
DEFINITION   wo63e01.x1 NCI_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:2460024 3',
     mRNA sequence.
ACCESSION   AI936226
VERSION   AI936226.1   GI:5675096
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
     Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 451)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
     Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
     Email: cgapbs-r@mail.nih.gov
     Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R.
     Emmert-Buck, M.D., Ph.D.
     cDNA Library Preparation: M. Bento Soares, Ph.D.
     cDNA Library Arrayed by: Greg Lennon, Ph.D.
     DNA Sequencing by: Washington University Genome Sequencing Center
     Clone distribution: NCI-CGAP clone distribution information can be
     found through the I.M.A.G.E. Consortium/LLNL at:
     www-bio.llnl.gov/bbrp/image/image.html
     Seq primer: -40UP from Gibco.
FEATURES   Location/Qualifiers
     source   1..451
                 /organism="Homo sapiens"
                 /mol_type="mRNA"

/db_xref="taxon:9606"
/clone="IMAGE:2460024"
/sex="male"
/tissue_type="normal prostate"
/lab_host="DH10B"
/clone_lib="NCI_CGAP_Pr22"
/note="Organ: prostate; Vector: pT7T3D-Pac (Pharmacia)
with a modified polylinker; 1st strand cDNA was prepared
from normal prostate bulk tissue, and was then primed with
a Not I - oligo(dT) primer. Double-stranded cDNA was
ligated to Eco RI adaptors (Pharmacia), digested with Not
I and cloned into the Not I and Eco RI sites of the
modified pT7T3 vector. Library is normalized, and was
constructed by Bento Soares and M. Fatima Bonaldo. "

  ;!

ORIGIN

Query Match   100.0%;   Score 259;   DB 9;   Length 451;
Best Local Similarity   100.0%;   Pred. No. 5.8e-54;
Matches 259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

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Qy    1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA   60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  312 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCATCTATGA  253

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACCACTCAGGAG     120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  252 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACCACTCAGGAG     193

Qy  121 GGCCCAGTAAAGGCTGAGATGAAGCTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG  180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  192 GGCCCAGTAAAGGCTGAGATGAAGCTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG  133

Qy  181 AGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCCTCAC   240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  132 AGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCCTCAC    73

Qy  241 ATTCGTGGGGCTCCCTGAA  259
          |||||||||||||||||||
Db   72 ATTCGTGGGGCTCCCTGAA   54
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RESULT 7
BQ012145/c
LOCUS   BQ012145   476 bp   mRNA   linear   EST 26-MAR-2002
DEFINITION   UI-1-BC1p-ath-h-05-0-UI.s1 NCI_CGAP_P13 Homo sapiens cDNA clone
     UI-1-BC1p-ath-h-05-0-UI 3', mRNA sequence.
ACCESSION   BQ012145
VERSION   BQ012145.1   GI:19737046
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
     Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 476)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
     Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
     Email: cgapbs-r@mail.nih.gov
     Tissue Procurement: Dr. Steven Brown
     cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
     cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
     DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
     Clone Distribution: Clone distribution information can be obtained
     from Dr. M. Bento Soares, bento-soares@uiowa.edu
     The following repetitive elements were found in this cDNA
     sequence: 14-57, >LINE2 (matched compliment)
     Seq primer: M13 FORWARD
     POLYA=Yes.
FEATURES   Location/Qualifiers
     source   1..476
                 /organism="Homo sapiens"

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                              Seq primer: -40ml3 fwd. ET from Amersham
                              High quality sequence stop: 461.
FEATURES             Location/Qualifiers
        source       1..490
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:1713717"
                     /dev_stage="two placentae: one from 8 weeks and another
                     from 9 weeks post conception"
                     /clone_lib="Soares_placenta_8to9weeks_2NbHP8to9W"
                     /note="Organ: placenta; Vector: pT7T3D (Pharmacia) with a
                     modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
                     strand cDNA was primed with a Not I - oligo(dT) primer [5'
                     TGTTACCAATCTGAAGTGGGAGCGGCCGCGATTTTTTTTTTTTTTTTT 3'],
                     double-stranded cDNA was size selected, ligated to Eco RI
                     adapters (Pharmacia), digested with Not I and cloned into
                     the Not I and Eco RI sites of a modified pT7T3 vector
                     (Pharmacia). Library constructed by Bento Soares and
                     M.Fatima Bonaldo."
ORIGIN

Query Match            100.0%;   Score 259;  DB 9;   Length 490;
Best Local Similarity  100.0%;   Pred. No. 6.1e-54;
Matches 259;   Conservative    0;  Mismatches    0;   Indels    0;   Gaps    0;

Qy    1 TAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAGCCTTCCCTGCCACCCATCTATGA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  310 TAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAGCCTTCCCTGCCACCCATCTATGA 251

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTCCCCGCACCCAGCAGGGGACACTCAGGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  250 CTTGAGCCAGGTCTGGTCCGTGGTCCCCGCACCCAGCAGGGGACACTCAGGAG 191

Qy  121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  190 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 131

Qy  181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGATGGGGCCTGGAGGCGGCCTCAC 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  130 AGTTCCTGGGAGTCTCCAGACATGGGGCCTGGAGGATGGGGCCTGGAGGCGGCCTCAC 71

Qy  241 ATTCGTGGGGGCTCCCTGAA 259
          ||||||||||||||||||||
Db   70 ATTCGTGGGGGCTCCCTGAA 52

RESULT 9
BM975759/c
LOCUS         BM975759                 503 bp    mRNA      linear   EST 21-FEB-2003
DEFINITION    UI-CF-EN1-acv-e-05-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
              UI-CF-EN1-acv-e-05-0-UI 3', mRNA sequence.
ACCESSION     BM975759
VERSION       BM975759.1  GI:19593350
KEYWORDS      EST.
SOURCE        Homo sapiens (human)
  ORGANISM    Homo sapiens
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE     1  (bases 1 to 503)
  AUTHORS     Bonaldo,M.F., Lennon,G. and Soares,M.B.
  TITLE       Normalization and subtraction: two approaches to facilitate gene
              discovery
  JOURNAL     Genome Res. 6 (9), 791-806 (1996)
  MEDLINE     97044477
  PUBMED      8889548
COMMENT       Contact: McCray, PB
              McCray Lab
              University of Iowa
              2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
              Tel: 319 356 4866
              Fax: 319 356 7171
```

```
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-1-BCIp-ath-h-05-0-UI"
                     /tissue_type="placenta"
                     /dev_stage="8-9 weeks"
                     /lab_host="DH10B (Life Technologies)"
                     /clone_lib="NCI_CGAP_Pl3"
                     /note="Organ: placenta; Vector: pT7T3-Pac (Pharmacia) with
                     a modified polylinker; Site 1: EcoR I; Site_2: Not I;
                     NCI_CGAP_Pl3 is a subtracted cDNA library constructed
                     according to Bonaldo, Lennon and Soares, Genome Research,
                     6:791-806, 1996. First strand cDNA synthesis was primed
                     with an oligo-dT primer containing a Not I site. Double
                     stranded cDNA was ligated to an EcoR I adaptor, digested
                     with Not I, and cloned directionally into pT7T3-Pac
                     vector. The oligonucleotide used to prime the synthesis of
                     first-strand cDNA contains a library tag sequence that is
                     located between the Not I site and the (dT)18 tail. The
                     sequence tags for this library are GA, AGGAA. For
                     additional information, contact: Bento Soares,
                     bento-soares@uiowa.edu
                     TAG_TISSUE=placenta human 8 week
                     TAG_LIB=UI-1-BCIp
                     TAG_SEQ=GA"
ORIGIN

Query Match            100.0%;   Score 259;  DB 12;  Length 476;
Best Local Similarity  100.0%;   Pred. No. 6e-54;
Matches 259;   Conservative    0;  Mismatches    0;   Indels    0;   Gaps    0;

Qy    1 TAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAGCCTTCCCTGCCACCCATCTATGA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  321 TAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAGCCTTCCCTGCCACCCATCTATGA 262

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTCCCCGCACCCAGCAGGGGACACTCAGGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  261 CTTGAGCCAGGTCTGGTCCGTGGTCCCCGCACCCAGCAGGGGACACTCAGGAG 202

Qy  121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  201 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 142

Qy  181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGATGGGGCCTGGAGGCGGCCTCAC 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  141 AGTTCCTGGGAGTCTCCAGACATGGGGCCTGGAGGATGGGGCCTGGAGGCGGCCTCAC 82

Qy  241 ATTCGTGGGGGCTCCCTGAA 259
          ||||||||||||||||||||
Db   81 ATTCGTGGGGGCTCCCTGAA 63

RESULT 8
AI139599/c
LOCUS         AI139599                 490 bp    mRNA      linear   EST 27-OCT-1998
DEFINITION    qc57d11.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA
              clone IMAGE:1713717 3', mRNA sequence.
ACCESSION     AI139599
VERSION       AI139599.1  GI:3645571
KEYWORDS      EST.
SOURCE        Homo sapiens (human)
  ORGANISM    Homo sapiens
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE     1  (bases 1 to 490)
  AUTHORS     NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
  TITLE       National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
              Tumor Gene Index
  JOURNAL     Unpublished (1997)
COMMENT       Contact: Robert Strausberg, Ph.D.
              Email: cgapbs-r@mail.nih.gov
              This clone is available royalty-free through LLNL ; contact the
              IMAGE Consortium (info@image.llnl.gov) for further information.
              Insert Length: 1016   Std Error: 0.00
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KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 508)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            The sequence contained an oligo-dT track that was present in the
            oligonucleotide that was used to prime the synthesis of first
            strand cDNA and therefore this may represent a bonafide poly A
            tail. cDNA Library Preparation: M.B. Soares Lab Clone distribution:
            NCI-CGAP clone distribution information can be found through the
            I.M.A.G.E. Consortium/LLNL at:
            www-bio.llnl.gov/bbrp/image/image.html
            Seq primer: M13 Forward
            POLYA=Yes.
FEATURES   Location/Qualifiers
     source 1..508
            /organism="Homo sapiens"
            /mol_type="mRNA"
            /db_xref="taxon:9606"
            /clone="IMAGE:2720801"
            /lab_host="DH10B (Life Technologies)"
            /clone_lib="NCI_CGAP_Sub3"
            /note="Vector: pTT7D-Pac (Pharmacia) with a modified
            polylinker; Site 1: Not I; Site 2: Eco RI; The
            NCI_CGAP_Sub3 library is a subtracted library derived from
            the NCI_CGAP_Sub1 library, which is a subtracted library
            derived from B. BI constitutes a mixture of 21
            normalized or subtracted NCI_CGAP libraries:
            NCI_CGAP_Co4, NCI_CGAP_Pr22, NCI_CGAP_Pr28, NCI_CGAP_Co10,
            NCI_CGAP_Co16, NCI_CGAP_Kid5, NCI_CGAP_Kid12,
            NCI_CGAP_Kid1, NCI_CGAP_Kid1, NCI_CGAP_CLL1, NCI_CGAP_Lei2,
            NCI_CGAP_Br2, NCI_CGAP_Co8, NCI_CGAP_Lu5, NCI_CGAP_Lu24,
            NCI_CGAP_Brn23, NCI_CGAP_GC4, NCI_CGAP_GC6,
            NCI_CGAP_Lu19, NCI_CGAP_Brn25. These 21 libraries were pooled and a
            single-stranded DNA preparation of the resulting mixture
            was used as a tracer in a subtractive hybridization with
            a driver whose composition is detailed below:
            NCI_CGAP_Kid3 pool 1   LLAM 3334-3337, 3682-3683,
            3798-3803 (IMAGE CloneIDs 1322376-1323911,
            1456008-1456775, 1500552-1502855); NCI_CGAP_Kid5 pool 1
            LLAM 3338-3342, 3722-3725, 3776-3778 (IMAGE CloneIDs
            1323912-1325831, 1471368-1472903, 1492104-1493255);
            NCI_CGAP_Lu5 pool 1   LLAM 3575-3582, 3851-3854 (IMAGE
            CloneIDs 1414920-1417991, 1520904-1522439); NCI_CGAP_GC4
            pool 1   LLAM 3164-3167, 3716-3720, 3733-3735 (IMAGE
            CloneIDs 1257096-1258631, 1469064-1470983, LLAM 2457-2459,
            1475592-1476743); NCI_CGAP_Pr22 pool 1 LLAM 2457-2459,
            2758-2759, 3062-3068 (IMAGE CloneIDs 985608-986759,
            1101192-1101959, 1217928-1220615); NCI_CGAP_Co10 pool 1
            LLAM 2644-2653, 2871-2872 (IMAGE CloneIDs 1057416-1061255,
            1144584-1145351). Subtraction was performed as previously
            described (Bonaldo, Lennon & Soares (1996): Normalization
            and Subtraction: Two Approaches To Facilitate Gene
            Discovery. Genome Research 6, 791-806.
            TAG_TISSUE=lung
            TAG_LIB=NCI_CGAP_Lu19
            TAG_SEQ=GACAGC"
ORIGIN

Query Match   100.0%;   Score 259;   DB 10;   Length 508;
Best Local Similarity 100.0%;   Pred. No. 6.2e-54;
Matches 259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Email: paul-mccray@uiowa.edu
Tissue Procurement: Dr. M. J. Welsh, University of Iowa
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com) or from Open Biosystems
(www.openbiosystems.com).
Seq primer: M13 FORWARD
POLYA=Yes.
FEATURES
     source Location/Qualifiers
            1..503
            /organism="Homo sapiens"
            /mol_type="mRNA"
            /db_xref="taxon:9606"
            /clone="UI-CF-EN1-acv-e-05-0-UI"
            /tissue_type="Primary Lung Cystic Fibrosis Epithelial
            Cells"
            /dev_stage="Adult"
            /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
            /clone_lib="UI-CF-EN1"
            /note="Organ: Lung; Vector: pTT3-Pac (Pharmacia) with a
            modified polylinker; Site 1: EcoR I; Site 2: Not I;
            UI-CF-EN1 is a normalized cDNA library containing the
            following tissue(s): Primary Lung Cystic Fibrosis
            Epithelial Cells. The library was constructed according to
            Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
            1996. First strand cDNA synthesis was primed with an
            oligo-dT primer containing a Not I site. Double stranded
            cDNA was ligated to an EcoR I adaptor, digested with Not
            I, and cloned directionally into pTT3-Pac vector. The
            oligonucleotide used to prime the synthesis of
            first-strand cDNA contains a library tag sequence that is
            located between the Not I site and the (dT)18 tail. The
            sequence tag for this library is CTGCTCAGGT.
            TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
            6hr to LPS 24h"
            TAG_LIB=UI-CF-EN1"
            TAG_SEQ=CTGCTCAGGT"
ORIGIN

Query Match   100.0%;   Score 259;   DB 12;   Length 503;
Best Local Similarity 100.0%;   Pred. No. 6.1e-54;
Matches 259;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 327 TAACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 268

Qy   61 CTTGAGCCAGGTCTGTCCGGTGGTCCCCCGCACCAGGACAGGACACTCAGGAG 120
        |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 267 CTTGAGCCAGGTCTGTCCGGTGGTCCCCCGCACCAGGACAGGACACTCAGGAG 208

Qy 121 GGCCCAGTAAAGGCTGAGATGAAGGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 207 GGCCCAGTAAAGGCTGAGATGAAGGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 148

Qy 181 AGTTCCTGGAGTCTTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGGGGGCCAGGCCTCAC 240
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 147 AGTTCCTGGAGTCTTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGGGGGCCAGGCCTCAC 88

Qy 241 ATTCGTGGGGCTCCCTGAA 259
        |||||||||||||||||||
Db   87 ATTCGTGGGGCTCCCTGAA 69

RESULT 10
AW205435/c
LOCUS   AW205435   508 bp   mRNA   linear   EST 02-DEC-1999
DEFINITION UI-H-BI1-aex-f-09-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone
            IMAGE:2720801 3', mRNA sequence.
ACCESSION   AW205435
VERSION   AW205435.1 GI:6504907

```
Db    328  TAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA  269
Qy     61  CTTGAGCCAGTCTCGTCCGTGGTGTCCCCGACCCACCCAGCAGGGACAGGCACTCAGGAG  120
           ||||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||
Db    268  CTTGAGCCAGTCTCGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG  209
Qy    121  GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGTAGAACTGAGAGTCGACGTG  180
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    208  GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGTAGAACTGAGAGTCGACGTG  149
Qy    181  AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC  240
           |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    148  AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC   89
Qy    241  ATTCGTGGGGCTCCCTGAA  259
           |||||||||||||||||||
Db     88  ATTCGTGGGGCTCCCTGAA   70
```

RESULT 11
LOCUS   AA525838/c
DEFINITION   AA525838   ni93a06.s1 NCI_CGAP_Pr21 Homo sapiens cDNA clone IMAGE:984370 3',
                 510 bp   mRNA   linear   EST 05-AUG-1997
                 mRNA sequence.
ACCESSION   AA525838
VERSION   AA525838.1 GI:2267907
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 510)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                 Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
                 Email: cgapbs-r@mail.nih.gov
                 Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R.
                 Emmert-Buck, M.D., Ph.D.
                 cDNA Library Preparation: M. Bento Soares, Ph.D.
                 cDNA Library Arrayed by: Greg Lennon, Ph.D.
                 DNA Sequencing by: Washington University Genome Sequencing Center
                 Clone distribution: NCI-CGAP clone distribution information can be
                 found through the I.M.A.G.E. Consortium/LLNL at:
                 www.bio.llnl.gov/bbrp/image/image.html
                 Insert Length: 1039   Std Error: 0.00
                 Seq primer: -40m13 fwd. ET from Amersham
                 High quality sequence stop: 369.
FEATURES   Location/Qualifiers
     source   1..510
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:984370"
                     /sex="male"
                     /tissue_type="normal prostate"
                     /lab_host="DH10B"
                     /clone_lib="NCI_CGAP_Pr21"
                     /note="Organ: Prostate; Vector: pT7T3D-Pac (Pharmacia)
                     with a modified polylinker; 1st strand cDNA was prepared
                     from normal prostate bulk tissue, and was then primed with
                     a Not I - oligo(dT) primer. Double-stranded cDNA was
                     ligated to Eco RI adaptors (Pharmacia), digested with Not
                     I and cloned into the Not I and Eco RI sites of the
                     modified pT7T3 vector. Library is not normalized. Library
                     was constructed by Bento Soares and M. Fatima Bonaldo."
ORIGIN

Query Match   100.0%; Score 259; DB 9; Length 510;
Best Local Similarity 100.0%; Pred. No. 6.2e-54;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA   60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    311  TAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA  252
Qy     61  CTTGAGCCAGTCTCGTCCGTGGTGTCCCCGACCCACCCAGCAGGGACAGGCACTCAGGAG  120
           ||||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||
Db    251  CTTGAGCCAGTCTCGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG  192
Qy    121  GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGTAGAACTGAGAGTCGACGTG  180
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    191  GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGTAGAACTGAGAGTCGACGTG  132
Qy    181  AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC  240
           |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    131  AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC   72
Qy    241  ATTCGTGGGGCTCCCTGAA  259
           |||||||||||||||||||
Db     71  ATTCGTGGGGCTCCCTGAA   53
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RESULT 12
LOCUS   BM783852
DEFINITION   BM783852   K-EST0061885 S17N258215 Homo sapiens cDNA clone S17N258215-2-E04
                 592 bp   mRNA   linear   EST 05-MAR-2002
                 5', mRNA sequence.
ACCESSION   BM783852
VERSION   BM783852.1 GI:19132084
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 592)
AUTHORS   Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
                 Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
                 Kim,Y.S.
TITLE   21C Frontier Korean EST Project 2001
JOURNAL   Unpublished (2002)
COMMENT   Contact: Kim YS
                 Genome Research Center
                 Korea Research Institute of Bioscience & Biotechnology
                 52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
                 Tel: +82-42-860-4470
                 Fax: +82-42-860-4409
                 Email: yongsung@mail.kribb.re.kr
                 Plate: 2   row: E   column: 04
                 High quality sequence stop: 592.
FEATURES   Location/Qualifiers
     source   1..592
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="S17N258215-2-E04"
                     /sex="M"
                     /lab_host="Top10F'"
                     /clone_lib="S17N258215"
                     /note="Organ: Stomach; Vector: pCNS; Site_1: EcoRI;
                     Site_2: NotI; The poly (A)+ RNA was dephosphorylated with
                     bacterial alkaline phosphatase (BAP) and then decapped
                     with tobacco acid pyrophosphatase (TAP). The decapped
                     intact mRNA was ligated with DNA-RNA linker including EcoR
                     I site by treatment of T4 RNA ligase and the first strand
                     cDNA was synthesized from oligo dT-selected mRNA by
                     priming with dT-tailed vector. The dT-tailed vector was
                     adjusted to have about 60nt. The cDNA vector was
                     circularized with E. coli DNA ligase after digestion of
                     EcoRI which site is also included in vector. An RNA strand
                     converted to a DNA strand by Okayama-Berg method. The
                     obtained cDNA vectors were used for transformation of
                     competent cells E. coli Top10F' by electroporation method.
                     The cDNA libraries constructed by this method are
                     full-length enriched cDNA library."
```

ORIGIN
    Query Match   100.0%;   Score 259; DB 12; Length 592;
    Best Local Similarity 100.0%;   Pred. No. 6.6e-54;
    Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TAACCCTGTCTGCTCAGGCACCTCTTCCCCCAGGAGCCTTCCCTGCCCACCCCATCTATGA   60
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Db 282 TAACCCTGTCTGCTCAGGCACCTCTTCCCCCAGGAGCCTTCCCTGCCCACCCCATCTATGA 341

Qy   61 CTTGAGCCAGGTCTCGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 120
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 342 CTTGAGCCAGGTCTCGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 401

Qy 121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGGAGTAGAACTGGACAAGAGTCGACGTG 180
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 402 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGGAGTAGAACTGGACAAGAGTCGACGTG 461

Qy 181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGGGGCCAGGCCTCAC 240
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 462 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGGGGCCAGGCCTCAC 521

Qy 241 ATTCGTGGGGCTCCCTGAA 259
        |||||||||||||||||||
Db 522 ATTCGTGGGGCTCCCTGAA 540

RESULT 13
BU621296/c
LOCUS   BU621296   700 bp   mRNA   linear   EST 23-SEP-2002
DEFINITION UI-H-FL1-bfz-h-07-0-UI.s1 NCI_CGAP_FL1 Homo sapiens cDNA clone
            UI-H-FL1-bfz-h-07-0-UI 3', mRNA sequence.
ACCESSION   BU621296
VERSION   BU621296.1 GI:23287511
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 700)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: James Martin
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Clone distribution information can be obtained
            from Dr. M. Bento Soares, bento-soares@uiowa.edu
            Seq primer: M13 FORWARD
            POLYA=Yes.
FEATURES   Location/Qualifiers
     source   1..700
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-H-FL1-bfz-h-07-0-UI"
                     /tissue_type="Cell lines"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies)"
                     /clone_lib="NCI_CGAP_FL1"
                     /note="Organ: Chondrosarcoma; Vector: pT7T3-Pac
                     (Pharmacia) with a modified polylinker; Site_1: EcoR I;
                     Site_2: Not I; NCI_CGAP FL1 is a normalized cDNA library
                     derived from a pool of mRNA obtained from 4 cell lines
                     from grade III chondrosarcoma tissues. The library was
                     constructed according to Bonaldo, Lennon and Soares,
                     Genome Research, 6:791-806, 1996. First strand cDNA
                     synthesis was primed with an oligo-dT primer containing a
                     Not I site. Double stranded cDNA was ligated to an EcoR I

adaptor, digested with Not I, and cloned directionally
into pT7T3-Pac vector. The oligonucleotide used to prime
the synthesis of first-strand cDNA contains a library tag
sequence that is located between the Not I site and the
(dT)18 tail. The sequence tag for this library is
GAGGTCGGTG. The cell lines were provided by Dr. James
Martin from the University of Iowa.
TAG_TISSUE=Human Chondrosarcoma Grade 3 cell line mix
TAG_LIB=UI-H-FL1
TAG_SEQ=GAGGTCGGTG"

ORIGIN

    Query Match   100.0%;   Score 259; DB 13; Length 700;
    Best Local Similarity 100.0%;   Pred. No. 7.1e-54;
    Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 TAACCCTGTGCTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA   60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 328 TAACCCTGTGCTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGA 269

Qy   61 CTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 268 CTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 209

Qy 121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGGAGTAGAACTGGACAAGAGTCGACGTG 180
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 208 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGGAGTAGAACTGGACAAGAGTCGACGTG 149

Qy 181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGGCCAGGCCTCAC 240
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 148 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGGCCAGGCCTCAC   89

Qy 241 ATTCGTGGGGCTCCCTGAA 259
        |||||||||||||||||||
Db   88 ATTCGTGGGGCTCCCTGAA   70

RESULT 14
BC023582
ID   BC023582   standard; mRNA; HTC; 1024 BP.
XX
AC   BC023582;
XX
SV   BC023582.1
XX
DT   01-NOV-2002 (Rel. 73, Created)
DT   05-MAR-2003 (Rel. 75, Last updated, Version 3)
XX
DE   Homo sapiens, Similar to prostate stem cell antigen, clone IMAGE:4840974,
DE   mRNA.
XX
KW   HTC.
XX
OS   Homo sapiens (human)
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC   Eutheria; Primates; Catarrhini; Hominidae; Homo.
XX
RN   [1]
RC   NIH-MGC Project URL: http://mgc.nci.nih.gov
RP   1-1024
RA   Strausberg R.;
RT   ;
RL   Submitted (05-FEB-2002) to the EMBL/GenBank/DDBJ databases.
RL   National Institutes of Health, Mammalian Gene Collection (MGC), Cancer
RL   Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03,
RL   Bethesda, MD 20892-2590, USA
XX
DR   RZPD; IRALp962M1933.
XX
CC   Contact: MGC help desk
CC   Email: cgapbs-r@mail.nih.gov
CC   Tissue Procurement: ATCC/DCTD/DTP
CC   cDNA Library Preparation: Rubin Laboratory

REFERENCE
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
          Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
          Email: cgaps-r@mail.nih.gov
          The sequence contained an oligo-dT track that was present in the
          oligonucleotide that was used to prime the synthesis of first
          strand cDNA and therefore this may represent a bonafide poly A
          tail. cDNA Library Preparation: M.B. Soares Lab Clone distribution:
          NCI-CGAP clone distribution information can be found through the
          I.M.A.G.E. Consortium/LLNL at:
          www-bio.llnl.gov/bbrp/image/image.html The following repetitive
          elements were found in this cDNA sequence: 13-56.
          Seq primer: M13 Forward
          POLYA=Yes.

FEATURES   Location/Qualifiers
     source   1..343
                  /organism="Homo sapiens"
                  /mol_type="mRNA"
                  /db_xref="taxon:9606"
                  /clone="IMAGE:2712625"
                  /lab_host="DH10B (Life Technologies)"
                  /clone_lib="NCI_CGAP_Sub3"
                  /note="Vector: pT7T3D-Pac (Pharmacia) with a modified
                  polylinker; Site 1: Not I; Site 2: Eco RI; The
                  NCI_CGAP_Sub3 library is a subtracted library derived from
                  the NCI_CGAP_Sub1 library, which is a subtracted library
                  derived from BI. BI constitutes a mixture of 21
                  normalized or subtracted NCI_CGAP libraries:
                  NCI_CGAP_Co4, NCI_CGAP_Pr22, NCI_CGAP_Pr28, NCI_CGAP_Co10,
                  NCI_CGAP_Co16, NCI_CGAP_Kid5, NCI_CGAP_Kid2,
                  NCI_CGAP_Kid3, NCI_CGAP_Kid11, NCI_CGAP_Lym2,
                  NCI_CGAP_Br2, NCI_CGAP_Co8, NCI_CGAP_Cli1, NCI_CGAP_Lei2,
                  NCI_CGAP_Brn23, NCI_CGAP_Lu5, NCI_CGAP_Lu24,
                  NCI_CGAP_Lu19, NCI_CGAP_GC4, NCI_CGAP_GC6,
                  NCI_CGAP_Brn25. These 21 libraries were pooled and a
                  single-stranded DNA preparation of the resulting mixture
                  was used as a tracer in a subtractive hybridization with
                  a driver whose composition is detailed below:
                  NCI_CGAP_Kid3 pool 1   LLAM 3334-3337, 3682-3683,
                  3798-3803 (IMAGE CloneIDs 1322376-1323911,
                  1456008-1456775, 1500552-1502855); NCI_CGAP_Kid5 pool 1
                  LLAM 3338-3342, 3722-3725, 3776-3778 (IMAGE CloneIDs
                  1323912-1325831, 1471368-1472903, 1492104-1493255);
                  NCI_CGAP_Lu5 pool 1   LLAM 3575-3582, 3851-3854 (IMAGE
                  CloneIDs 1414920-1417991, 1520904-1522439); NCI_CGAP_GC4
                  pool 1   LLAM 3164-3167, 3716-3720, 3733-3735 (IMAGE
                  CloneIDs 1257096-1258631, 1469064-1470983,
                  1475592-1476743); NCI_CGAP_Pr22 pool 1   LLAM 2457-2459,
                  2758-2759, 3062-3068 (IMAGE CloneIDs 985608-986759,
                  1101192-1101959, 1217928-1220615); NCI_CGAP_Co10 pool 1
                  LLAM 2644-2653, 2871-2872 (IMAGE CloneIDs 1057416-1061255,
                  1144584-1145351). Subtraction was performed as previously
                  described [Bonaldo, Lennon & Soares (1996): Normalization
                  and Subtraction: Two Approaches To Facilitate Gene
                  Discovery. Genome Research 6, 791-806.
                  TAG_TISSUE=lung
                  TAG_LIB=NCI_CGAP_Lu19
                  TAG_SEQ=GACAGC".

ORIGIN

Query Match   99.6%;   Score 258; DB 10; Length 343;
Best Local Similarity 99.6%;   Pred. No. 9.1e-54;
Matches 258;   Conservative 0;   Mismatches 1;   Indels 0;   Gaps 0;

Qy   1 TAACCCTGTCTCAGGCACCTTCCTGCCACCCATCTATGA   60
          ||||||||||||||||||||||||||||||||||||||||
Db   320 TAACCCTGTCTCAGGCACCTTCCTGCCACCCATCTATGA   261

Qy   61 CTTGAGCCAGGTCTCGGTCCGTGGTGTCCCCGTCCCCGCACCCAGCAGGGACACTCAGGAG   120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTTGAGCCAGGTCTCGGTCCGTGGTGTCCCCGTCCCCGCACCCAGCAGGGACACTCAGGAG   120

CC cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
CC DNA Sequencing by: National Institutes of Health Intramural
CC Sequencing Center (NISC),
CC Gaithersburg, Maryland;
CC Web site: http://www.nisc.nih.gov/
CC Contact: nisc_mgc@nhgri.nih.gov
CC Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
CC Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
CC Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
CC Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
CC Maduro,Q.L., Masiello,C., Masteri,B., Mastrian,S.D., McCloskey,J.C.,
CC McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
CC Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
CC Young,A., Zhang,L.-H. and Green,E.D.
CC Clone distribution: MGC clone distribution information can be found
CC through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
CC Series: IRAL Plate: 33 Row: m Column: 19
CC This clone was selected for full length sequencing because it
CC passed the following selection criteria: matched mRNA gi: 5031994
CC This clone has the following problem: retained intron.

FH Key   Location/Qualifiers
FT source   1..1024
FT   /db_xref="taxon:9606"
FT   /db_xref="RZPD:IRAp962M1933"
FT   /mol_type="mRNA"
FT   /note="Vector: pOTB7"
FT   /organism="Homo sapiens"
FT   /clone="IMAGE:484074"
FT   /tissue_type="skin, melanotic melanoma, high MDR."
FT   /clone_lib="NIH_MGC_49"
FT   /lab_host="DH10B-R"
SQ Sequence 1024 BP; 226 A; 331 C; 285 G; 182 T; 0 other;

Query Match   100.0%;   Score 259; DB 8; Length 1024;
Best Local Similarity 100.0%;   Pred. No. 8.5e-54;
Matches 259;   Conservative 0;   Mismatches 0;   Indels 0;   Gaps 0;

Qy   1 TAACCCTGTCTCAGGCACCTTCCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA   60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   670 TAACCCTGTCTCAGGCACCTTCCCCCAGGAAGCCTTCCCTGCCACCCATCTATGA   729

Qy   61 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACACTCAGGAG   120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   730 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACACTCAGGAG   789

Qy   121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGACAAGAGTCGACGTG   180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   790 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGACAAGAGTCGACGTG   849

Qy   181 AGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGGCCTGGAGGGAAGGGGGCCAGGCCTCAC   240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   850 AGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGGCCTGGAGGGAAGGGGGCCAGGCCTCAC   909

Qy   241 ATTCGTGGGGCTCCCTGAA   259
          |||||||||||||||||||
Db   910 ATTCGTGGGGCTCCCTGAA   928

RESULT 15
AW134915/c
LOCUS   AW134915   343 bp   mRNA   linear   EST 28-OCT-1999
DEFINITION UI-H-BI1-abr-d-01-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone
            IMAGE:2712625 3', mRNA sequence.
ACCESSION   AW134915
VERSION   AW134915.1 GI:6138461
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

Mon Sep 20 09:12:17 2004

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Db       260 CTTGAGCCAGTCTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACAGGCACTCAGGAG 201

Qy       121 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 180
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Qy       181 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGGGCCAGGCCTCAC 240
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Qy       241 ATTCGTGGGGCTCCCTGAA 259
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Search completed: September 18, 2004, 19:14:30
Job time : 1186.38 secs

us-09-079-874-10.rge

OM nucleic - nucleic search, using sw model

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GenCore version 5.1.6

Run on: September 18, 2004, 04:35:58 ; Search time 1266.89 Seconds
                                                (without alignments)
                                  8655.682 Million cell updates/sec

Title: US-09-079-874-10
Perfect score: 253
Sequence: 1 ATCTATGACTTGAGCCAGT.........TTAATAAACACCTGTTGGAT 253

Scoring table: IDENTITY.NUC
                 Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 2167516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	253	100.0	758	6	AX014148	AX014148 Sequence
2	253	100.0	758	6	BD205056	BD205056 Human nuc
3	253	100.0	960	6	AR410610	AR410610 Sequence
4	253	100.0	960	6	AX201328	AX201328 Sequence
5	253	100.0	960	6	AX697426	AX697426 Sequence
6	253	100.0	960	6	BD075381	BD075381 Secretory
7	253	100.0	960	6	BD172241	BD172241 Secreted
8	253	100.0	960	6	BD172560	BD172560 Secreted
9	253	100.0	960	6	BD172879	BD172879 Secreted
10	253	100.0	960	6	BD173198	BD173198 Secreted
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40	37.4	14.8	137541	9	AC079068	AC079068 Homo sapi
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ALIGNMENTS

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LOCUS   AX014148   758 bp   DNA   linear   PAT 07-SEP-2000
DEFINITION   Sequence 16 from Patent WO9954447.
ACCESSION   AX014148
VERSION   AX014148.1 GI:10040595
KEYWORDS   .
SOURCE   Homo sapiens (human)
  ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Schmitt,A., Specht,T., Dahl,E., Hinzmann,B., Rosenthal,A. and
             Pilarsky,C.
  TITLE   Human nucleic acid sequences of bladder tumour tissue

Pred. No. is the number of results predicted by chance to have a

JOURNAL   Patent: WO 9954447-A 16 28-OCT-1999;
            SCHMITT ARMIN (DE); SPECHT THOMAS (DE); DAHL EDGAR (DE); HINZMANN
            BERND (DE); ROSENTHAL ANDRE (DE); METAGEN GES FUER GENOMFORSCHUN
            (DE); PILARSKY CHRISTIAN (DE)
FEATURES   Location/Qualifiers
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ORIGIN

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Qy   1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 60
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Qy   181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTAGGCCCTTAATAA 240
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Qy   241 ACACCTGTTGGAT 253
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Qy    241 ACACCTGTTGGAT 253
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Db    936 ACACCTGTTGGAT 948


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LOCUS       AX201328                960 bp    DNA      linear    PAT 30-AUG-2001
DEFINITION  Sequence 7 from Patent WO0153486.
ACCESSION   AX201328
VERSION     AX201328.1    GI:15391156
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Ashkenazi,A.J., Goddard,A., Godowski,P.J., Gurney,A.L.,
            Hillan,K.J., Marsters,S.A., Pan,J., Pitti,R.M., Roy,M.A., Smith,V.,
            Stone,D.M., Watanabe,C.K. and Wood,W.I.
TITLE       Compositions and methods for the treatment of tumour
JOURNAL     Patent: WO 0153486-A 7 26-JUL-2001;
            Genentech, Inc. (US)
FEATURES            Location/Qualifiers
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ORIGIN

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Qy     61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGACTGAGTAGAACTGGAGGACAAGAG 120
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Qy    121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
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Qy    181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCAGCGTAGGCCCTTAATAA 240
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Qy    241 ACACCTGTTGGAT 253
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Db    936 ACACCTGTTGGAT 948


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LOCUS       AX697426                960 bp    DNA      linear    PAT 02-APR-2003
DEFINITION  Sequence 17 from Patent WO0104311.
ACCESSION   AX697426
VERSION     AX697426.1    GI:29498554
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Ashkenazi,A.J., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
            Filvaroff,E., Fong,S., Gao,W.Q., Gerber,H., Gerritsen,M.E.,
            Goddard,A., Godowski,P.J., Grimaldi,C.J., Gurney,A.L., Hillan,K.J.,
            Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,
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(Right-hand column)

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TITLE       Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
JOURNAL     Patent: WO 0104311-A 17 18-JAN-2001;
            Genentech Inc. (US)
FEATURES            Location/Qualifiers
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Best Local Similarity  100.0%;    Pred. No. 1e-59;
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Qy      1 ATCTATGACTTGAGCCAGGTCTCGGTCCGTCTGGTGTCCCCGCACCCAGCCAGGGGACAGGCA 60
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Qy     61 CTCAGGAGGGCCCAGTAAAGGCTAGAGTGAGTGACTAGTAGAACTGGAGGACAAGAG 120
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Qy    121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
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Qy    181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCAGCGTAGGCCCTTAATAA 240
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Qy    241 ACACCTGTTGGAT 253
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Db    936 ACACCTGTTGGAT 948


RESULT 6
BD075381
LOCUS       BD075381                960 bp    DNA      linear    PAT 27-AUG-2002
DEFINITION  Secretory and transmembrane polypeptide and nucleic acid encoding
            the same.
ACCESSION   BD075381
VERSION     BD075381.1    GI:22620984
KEYWORDS    JP 2001516580-A/14.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
AUTHORS     Wood,W.I., Gurney,A.L., Goddard,A., Penica,D., Chen,J. and Yuan,J.
TITLE       Secretory and transmembrane polypeptide and nucleic acid encoding
            the same
JOURNAL     Patent: JP 2001516580-A 14 02-OCT-2001;
            GENENTECH INC
COMMENT     OS   Homo sapiens (human)
            PN   JP 2001516580-A/14
            PD   02-OCT-2001
            PF   16-SEP-1998 JP 2000511867
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            27-OCT-1997 US   60/063329,27-OCT-1997 US    60/063327 PR
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                    29-OCT-1997 US        60/064215 PR                          PN JP 2002223786-A/14
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                       JEAN CHEN,                                                  24-OCT-1997 US        60/063304,24-OCT-1997 US        60/063327 PR
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                                                                                  JIAN ZHENG,
Query Match       100.0%;   Score 253;  DB 6;  Length 960;                       PI JEAN YUAN
Best Local Similarity    100.0%;  Pred. No. 1e-59;                               PC C12N15/09,C07K14/47,C07K16/18,C07K19/00,C12N1/19,C12N1/21, PC
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BD172241
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DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
            the same.                                                           Db  756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGCTGAGTAGAACTGGAGGACAAGAG  815
ACCESSION   BD172241
VERSION     BD172241.1  GI:28413539                                              Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTCGGAGGAAGGGGGCCA  875
KEYWORDS    JP 2002223786-A/14.                                                           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
SOURCE      Homo sapiens (human)                                                Db  816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTCGGAGGAAGGGGGCCA  875
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;   Qy  181 GGGCTCACATTCGTGGGGCTCCCTGAATGGCAGCCAGCAGCGTAGGCCCTTAATAA  240
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.        |||||||||||||||||||||||||||||||||||||||||||||||||||||||
REFERENCE   1  (bases 1 to 960)                                                  Db  876 GGGCTCACATTCGTGGGGCTCCCTGAATGGCAGCCAGCAGCGTAGGCCCTTAATAA  935
AUTHORS     Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.                                                             Qy  241 ACACCTGTTGGAT  253
TITLE       Secreted and transmembrane polypeptides and nucleic acids encoding           |||||||||||||
            the same                                                            Db          253
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Db          936 ACACCTGTTGGAT 948

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LOCUS           BD172560                    960 bp    DNA      linear    PAT 18-FEB-2003
DEFINITION      Secreted and transmembrane polypeptides and nucleic acids encoding
                the same.
ACCESSION       BD172560
VERSION         BD172560.1  GI:28413862
KEYWORDS        JP 2002238586-A/14.
SOURCE          Homo sapiens (human)
  ORGANISM      Homo sapiens
                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE       1  (bases 1 to 960)
  AUTHORS       Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
                Yuan,J.
  TITLE         Secreted and transmembrane polypeptides and nucleic acids encoding
                the same
  JOURNAL       Patent: JP 2002238586-A 14 27-AUG-2002;
                GENENTECH INC
  COMMENT       OS   Homo sapiens (human)
                PN   JP 2002238586-A/14
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                21-NOV-1997 US    60/066120,21-NOV-1997 US    60/066840 PI
                WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
                JIAN ZHENG,
                PI  JEAN YUAN
                PC  C12N15/09,C07K14/47,C07K16/18,C07K19/00,C12N1/19,C12N1/21, PC
                    C12N5/10,
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                    (C12P21/02,C12R1:91),(C12P21/08,C12R1:91),(C12N15/00,C12N5/00, PC
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                encoding the same
FEATURES        Location/Qualifiers
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Query Match             100.0%;  Score 253;  DB 6;  Length 960;
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Matches  253;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy      1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGCGGGGACAGGCA 60
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Db    696 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGCGGGGACAGGCA 755

Qy     61 CTCAGGAGGGCCCAGTAAAGCTGAGATGAAGCTGAGTGAGAACTGGACTGAGGACAAGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    756 CTCAGGAGGGCCCAGTAAAGCTGAGATGAAGCTGAGTGAGAACTGGACTGAGGACAAGAG 815

Qy    121 TCGAGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGGCTCGGAGGCCTGGAGGAAGGGGCCA 180
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Qy    181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCTGAGCACAGCAGGCTAGGGCCCTTAATAA 240
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Db    876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGGCTAGGGCCCTTAATAA 935

Qy    241 ACACCTGTTGGAT 253
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Db    936 ACACCTGTTGGAT 948
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LOCUS           BD172879                    960 bp    DNA      linear    PAT 18-FEB-2003
DEFINITION      Secreted and transmembrane polypeptides and nucleic acids encoding
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ACCESSION       BD172879
VERSION         BD172879.1  GI:28414185
KEYWORDS        JP 2002238587-A/14.
SOURCE          Homo sapiens (human)
  ORGANISM      Homo sapiens
                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE       1  (bases 1 to 960)
  AUTHORS       Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
                Yuan,J.
  TITLE         Secreted and transmembrane polypeptides and nucleic acids encoding
                the same
  JOURNAL       Patent: JP 2002238587-A 14 27-AUG-2002;
                GENENTECH INC
  COMMENT       OS   Homo sapiens (human)
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                PF   18-DEC-2001 JP 2001385248
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WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
JIAN ZHENG,
  PI    JEAN YUAN
  PC    C12N15/09,C07K14/47,C07K16/18,C07K19/00,C12N1/19,C12N1/21,C12N5/10, PC
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Query Match        100.0%;   Score 253;   DB 6;   Length 960;
Best Local Similarity  100.0%;   Pred. No. 1e-59;
Matches  253;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy      1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACAGGCA 60
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Db    696 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACAGGCA 755

Qy     61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGAACGGGGCCA 120
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Db    756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGAACGGGGCCA 815

Qy    121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
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Db    816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 875

Qy    181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCGTAGGCCCTTAATAA 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db    876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCGTAGGCCCTTAATAA 935

Qy    241 ACACCTGTTGGAT 253
          |||||||||||||
Db    936 ACACCTGTTGGAT 948


RESULT 10
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LOCUS       BD173198              960 bp     DNA      linear    PAT 18-FEB-2003
DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding
            the same.
ACCESSION   BD173198
VERSION     BD173198.1  GI:28414507
KEYWORDS    JP 2002238588-A/14.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: JP 2002238588-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT     OS   Homo sapiens (human)
            PN   JP 2002238588-A/14
            PD   27-AUG-2002
            PF   18-DEC-2001 JP 2001185315
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                                           WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
                                           JIAN ZHENG,
                                             PI    JEAN YUAN
                                             PC    C12N15/09,C07K14/435,C07K16/18,C07K19/00,C12N1/19,C12N1/21, PC
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                                             encoding the same
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                                       Query Match        100.0%;   Score 253;   DB 6;   Length 960;
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                                                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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                                       Qy    241 ACACCTGTTGGAT 253
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                                       Db    936 ACACCTGTTGGAT 948


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                                       DEFINITION  Secretory and transmembrane polypeptide and nucleic acid encoding
                                                   the same.
                                       ACCESSION   BD175232
                                       VERSION     BD175232.1  GI:29120928
                                       KEYWORDS    JP 2002253280-A/14.
                                       SOURCE      Homo sapiens (human)
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           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1  (bases 1 to 960)
AUTHORS    Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
           Yuan,J.
TITLE      Secretory and transmembrane polypeptide and nucleic acid encoding
           the same
JOURNAL    Patent: JP 2002253280-A 14 10-SEP-2002;
           GENENTECH INC

COMMENT    OS   Homo sapiens (human)
           PN   JP 2002253280-A/14
           PD   10-SEP-2002
           PF   18-DEC-2001 JP 2001385319
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           WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
           JIAN ZHENG, JEAN YUAN
           PC   C12N15/09,A61K45/00,A61P1/00,A61P13/12,A61P17/00,A61P17/06, PC
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           PC   C07K19/00,
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           PC   C12R1:91),
           PC   C12N15/00,C12N5/00,A61K37/02,(C12N5/00,C12R1:91) CC
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Query Match     100.0%;   Score 253;  DB 6;   Length 960;
Best Local Similarity  100.0%;   Pred. No. 1e-59;
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Qy    121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCA 180
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Db    816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCA 875
Qy    181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCTGAGCAGCAGCTAGGCGCCCTTAATAA 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCTGAGCAGCAGCTAGGCGCCCTTAATAA 935
Qy    241 ACACCTGTTGGAT 253
          |||||||||||||
Db    936 ACACCTGTTGGAT 948


RESULT 12
AY358912
LOCUS       AY358912                960 bp    mRNA       linear    PRI 03-OCT-2003
DEFINITION  Homo sapiens clone DNA34435 prostate stem cell A (UNQ206) mRNA,
            partial cds.
ACCESSION   AY358912
VERSION     AY358912.1  GI:37182941
KEYWORDS    FLI_CDNA.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
AUTHORS     Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
            Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B.,
            Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.E.,
            Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S.,
            Lee,J., Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C.,
            Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,V., Smith,V.,
            Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieand,C., Woods,K.,
            Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
            Goddard,A., Wood,W.I. and Godowski,P.
TITLE       The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
            Effort to Identify Novel Human Secreted and Transmembrane Proteins:
            A Bioinformatics Assessment
JOURNAL     Genome Res. 13 (10), 2265-2270 (2003)
PUBMED      12975309
REFERENCE   2  (bases 1 to 960)
AUTHORS     Clark,H.F.
TITLE       Direct Submission
JOURNAL     Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
            Inc., 1 DNA Way, South San Francisco, CA 94080, USA
FEATURES             Location/Qualifiers
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                     /clone="DNA34435"
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     CDS             <1..361
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                     /note="PRO232"
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                     /product="prostate stem cell A"
                     /protein_id="AAQ89271.1"
                     /db_xref="GI:37182942"
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                     WTARIRAVGLTVISKGCSLNCVDDSQDYYVGKNITCCDTDLCNASGAHALQPAAAI
                     LALLPALGLLLWGPGQL"
ORIGIN
Query Match     100.0%;   Score 253;  DB 9;   Length 960;
Best Local Similarity  100.0%;   Pred. No. 1e-59;
Matches 253;   Conservative  0;   Mismatches  0;   Indels  0;   Gaps  0;

Qy      1 ATCTATGACTTGAGCCAGTCTGGTCCCTGGTGTCCCCGCACCCAGCGGGGACAGGCA 60
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Db 696 ATCTATGAGACTTGAGCCAGTCTTCGTGTCCGTGGTGTCCCCGCACCCAGCGCAGGGGACACAGGCA 755

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGAGACTGAGAGACTGGAGGACAAGAG 120
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Db 756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGAGACTGAGAGACTGGAGGACAAGAG 815

Qy 121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTTGGAGGAGGGGGCCA 180
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Db 816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTTGGAGGAGGGGGCCA 875

Qy 181 GGGCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
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Qy 241 ACACCTGTTGGAT 253
         |||||||||||||
Db 936 ACACCTGTTGGAT 948

RESULT 13
BD076397
LOCUS   BD076397   979 bp   DNA   linear   PAT 27-AUG-2002
DEFINITION Human protein having transmembrane domain and DNA encoding the
            same.
ACCESSION   BD076397
VERSION   BD076397.1 GI:22622000
KEYWORDS   JP 2001519154-A/11.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 979)
  AUTHORS   Kato,S., Kimura,T., Sekine,S. and Kobayashi,M.
  TITLE   Human protein having transmembrane domain and DNA encoding the same
            and DNA encoding the
  JOURNAL   Patent: JP 2001519154-A 11 23-OCT-2001;
            SAGAMI CHEMICAL RESEARCH CENTER,PROTEGENE INC
COMMENT   OS   Homo sapiens (human)
            PN   JP 2001519154-A/11
            PD   23-OCT-2001
            PF   05-OCT-1998 JP 2000515001
            PI   SEISHI KATO,TOMOKO KIMURA,SHINGO SEKINE,MIDORI KOBAYASHI PC
            C12N15/09,C07K14/47,C12N5/10,C12N15/00,C12N5/00 CC Human protein
            having transmembrane domain
FEATURES   Location/Qualifiers
     source   1..979
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                     /mol_type="genomic DNA"
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ORIGIN

Query Match   100.0%; Score 253; DB 6; Length 979;
Best Local Similarity   100.0%; Pred. No. 1e-59;
Matches 253; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 ATCTATGAGACTTGAGCCAGTCTTCGTGTCCGTGGTGTCCCCGCACCCAGCGCAGGGGACACAGGCA 60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 722 ATCTATGAGACTTGAGCCAGTCTTCGTGTCCGTGGTGTCCCCGCACCCAGCGCAGGGGACACAGGCA 781

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGAGACTGAGAGACTGGAGGACAAGAG 120
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Db 782 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGAGACTGAGAGACTGGAGGACAAGAG 841

Qy 121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTTGGAGGAGGGGGCCA 180
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Qy 181 GGGCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
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Db 902 GGGCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 961

Qy 241 ACACCTGTTGGAT 253
         |||||||||||||
Db 962 ACACCTGTTGGAT 974

RESULT 14
BC023582
LOCUS   BC023582   1015 bp   mRNA   linear   PRI 19-DEC-2003
DEFINITION Homo sapiens prostate stem cell antigen, mRNA (cDNA clone MGC:22972
            IMAGE:4840974), complete cds.
ACCESSION   BC023582
VERSION   BC023582.2 GI:40225653
KEYWORDS   MGC.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 1015)
  AUTHORS   Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G.,
            Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D.,
            Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,
            Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,L.,
            Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,
            Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L.,
            Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S.,
            Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J.,
            Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J.,
            McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S.,
            Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W.,
            Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A.,
            Fahey,J., Helton,E., Ketteman,M., Madan,A., Rodrigues,S.,
            Sanche,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y.,
            Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D.,
            Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M.,
            Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smailus,D.E.,
            Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
  TITLE   Generation and initial analysis of more than 15,000 full-length
            human and mouse cDNA sequences
  JOURNAL   Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
REFERENCE   2 (bases 1 to 1015)
  AUTHORS   Strausberg,R.
  TITLE   Direct Submission
  JOURNAL   Submitted (05-FEB-2002) National Institutes of Health, Mammalian
            Gene Collection (MGC), Cancer Genomics Office, National Cancer
            Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
            USA
REMARK   NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT   On Dec 19, 2003 this sequence version replaced gi:23958165.
            Contact: MGC help desk
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC/DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC),
            Gaithersburg, Maryland;
            Web site: http://www.nisc.nih.gov/
            Contact: nisc_mgc@nhgri.nih.gov
            Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
            Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
            Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
            Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
            Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
            McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
            Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
            Young,A., Zhang,L.-H. and Green,E.D.

            Clone distribution: MGC clone distribution information can be found
            through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
            Series: IRAL Plate: 33 Row: m Column: 19
            This clone was selected for full length sequencing because it

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            /lab_host="DH10B-R"
            /note="vector: pOTB7"
gene        1..1015
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misc_feature   67..288
            /gene="PSCA"
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ORIGIN

Query Match        100.0%;   Score 253;   DB 9;   Length 1015;
Best Local Similarity 100.0%;   Pred. No. 1e-59;
Matches 253;   Conservative  0;   Mismatches  0;   Indels  0;   Gaps  0;

Qy    1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCCAGCAGGGGACAGGCA 60
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Db  713 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCCAGCAGGGGACAGGCA 772

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACAAGAG 120
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Db  773 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACAAGAG 832

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGGAGGGGGCCA 180
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Db  833 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGGAGGGGGCCA 892

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCAGCCAGCGTAGGCCCTTAATAA 240
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Db  893 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCAGCCAGCGTAGGCCCTTAATAA 952

Qy  241 ACACCTGTTGGAT 253
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Db  953 ACACCTGTTGGAT 965

RESULT 15
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LOCUS       AC015718      157839 bp    DNA     linear   HTG 27-MAR-2003
DEFINITION  Homo sapiens clone RP11-119A16, 4 unordered pieces.
ACCESSION   AC015718
VERSION     AC015718.6  GI:18642769
KEYWORDS    HTG; HTGS_PHASE1; HTGS_FULLTOP; HTGS_CANCELLED.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 157839)
AUTHORS     Birren,B., Linton,L., Nusbaum,C. and Lander,E.
TITLE       Homo sapiens chromosome, clone RP11-119A16
JOURNAL     Unpublished
REFERENCE   2  (bases 1 to 157839)
AUTHORS     Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M.,
            Baldwin,J., Barna,N., Beckerly,R., Boguslavkiy,L., Boukhgalter,B.,
            Brown,A., Castle,A., Colangelo,M., Collins,S., Collymore,A.,
            Cooke,P., DeArellano,K., Dewar,K., Domino,M., Donelan,L., Doyle,M.,
            Ferreira,P., FitzHugh,W., Forrest,C., Funke,R., Gage,D.,
            Gaiagan,J., Gardyna,S., Grant,G., Hagos,B., Heaford,A., Horton,L.,
            Howland,J.C., Johnson,R., Jones,C., Kann,L., Karatas,A., Klein,J.,
            Leboczky,J., Lieu,C., Locke,K., Macdonald,P., Marquis,N.,
            McEwan,P., McGurk,A., McKernan,K., McLaughlin,J., Meldrim,J.,
            Morrow,J., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P.,
            Peterson,K., Pollara,V., Riley,R., Roy,A., Santos,R., Severy,P.,
            Stange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J.,
            Tesfaye,S., Tirrell,A., Vassiliev,H., Vo,A., Wheeler,J., Wu,X.,
            Wyman,D., Ye,W.J., Zimmer,A. and Zody,M.
TITLE       Direct Submission
JOURNAL     Submitted (17-NOV-1999) Whitehead Institute/MIT Center for Genome
            Research, 320 Charles Street, Cambridge, MA 02141, USA
REFERENCE   3  (bases 1 to 157839)
AUTHORS     Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N.,
            Anderson,S., Barna,N., Bastien,V., Boguslavkiy,L., Boukhgalter,B.,
            Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B.,
            Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A.,
            Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S.,
            Ferreira,P., FitzHugh,W., Gage,D., Gaiagan,J., Gardyna,S.,
            Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N.,
            Hagos,B., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C.,
            Kamat,A., Karatas,A., Kells,C., LaRocque,R., Lamazares,C.,
            Landers,T., Lehoczky,J., Levine,R., Liu,G., MacLean,C.,
            Macdonald,P., Major,J., Marquis,N., Matthews,C., McCarthy,M.,
            McEwan,P., McKernan,K., Meldrim,J., Meneus,L., Mihova,T.,
            Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C.,
            Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J.,
            Peterson,K., Phunkhang,P., Pierre,N., Pollara,V., Raymond,C.,
            Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J.,
            Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupback,R., Seaman,S.,
            Severy,P., Spencer,B., Stange-Thomann,N., Stojanovic,N.,
            Struss,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J.,
            Topham,K., Travers,M., Travis,N., Trigilio,J., Vassiliev,H.,
            Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G.,
            Zaincoun,J., Zembek,L., Zimmer,A. and Zody,M.
TITLE       Direct Submission
JOURNAL     Submitted (27-MAR-2003) Whitehead Institute/ MIT Center for Genome
            Research, 320 Charles Street, Cambridge, MA 02141, USA
COMMENT     On Feb 9, 2002 this sequence version replaced gi:14029953.
            All repeats were identified using RepeatMasker.
            Smit, A.F.A. & Green, P. (1996-1997)
            http://ftp.genome.washington.edu/RM/RepeatMasker.html
            ---------------------- Genome Center
            Center: Whitehead Institute/ MIT Center for Genome Research
            Center code: WIBR
            Web site: http://www-seq.wi.mit.edu
            Contact: sequence_submissions@genome.wi.mit.edu
            ---------------------- Project Information
            Center project name: L1404
            Center clone name: 119_A_16
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         *  NOTE: This is a 'working draft' sequence. It currently
         *  consists of 4 contigs. The true order of the pieces
         *  is not known and their order in this sequence record is
         *  arbitrary. Gaps between the contigs are represented as
         *  runs of N, but the exact sizes of the gaps are unknown.
         *  This record will be updated with the finished sequence
         *  as soon as it is available and the accession number will
         *  be preserved.
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         *    7974    8073: gap of 100 bp
         *    8074   81857: contig of 73784 bp in length
         *   81858   81957: gap of 100 bp
         *   81958  136278: contig of 54321 bp in length
         *  136279  136378: gap of 100 bp
         *  136379  157839: contig of 21461 bp in length
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ORIGIN

Query Match          100.0%;  Score 253;  DB 2;  Length 157839;
Best Local Similarity 100.0%;  Pred. No. 6.7e-60;
Matches 253;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy       1 ATCTATGACTTGAGCCAGGTCTCGGTCCGTGGTGTCCCCCGCACCCAGCCAGGGGACAGGCA 60
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Qy      61 CTCAGGAGGGGCCCAGTAAAGGCTAAAGGCTGAGATGAAGTGGACTGGACTAGAACTGGAGGACAAGAG 120
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Qy     121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
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Qy     181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
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Job time : 1267.89 secs

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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: September 18, 2004, 04:33:41 ; Search time 165.389 Seconds
(without alignments)
6498.587 Million cell updates/sec

Title: US-09-079-874-10
Perfect score: 253
Sequence: 1 ATCTATGACTTGAGCCAGGT.........TTAATAAACACCTGTTGGAT 253

Scoring table: IDENTITY.NUC
Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_29Jan04:*
1: geneseqn1980s:*
2: geneseqn1990s:*
3: geneseqn2000s:*
4: geneseqn200as:*
5: geneseqn200bs:*
6: geneseqn2002s:*
7: geneseqn2003as:*
8: geneseqn2003bs:*
9: geneseqn2003cs:*
10: geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	253	100.0	253	2	AAV80395	Nucleotid
2	253	100.0	253	2	AAV68612	Human PS1
3	253	100.0	758	2	AAZ24404	Human bla
4	253	100.0	960	4	AAX52217	Protein P
5	253	100.0	960	6	AAF72375	Human PRO
6	253	100.0	960	6	ABK40257	cDNA enco
7	253	100.0	960	7	ACA58909	Human PRO
8	253	100.0	960	7	ACA58306	cDNA enco
9	253	100.0	960	7	ACA60013	Human CDN
10	253	100.0	960	7	ACD07413	Novel hum
11	253	100.0	960	7	ABX71461	Human CDN
12	253	100.0	960	7	ACH06793	Human sec
13	253	100.0	960	7	ABX96030	Human sec
14	253	100.0	960	7	ACA05351	cDNA enco
15	253	100.0	960	8	ACD20018	Human sec
16	253	100.0	960	8	ACA54821	Novel hum
17	253	100.0	960	8	ACD19656	Human sec
18	253	100.0	960	8	ADB29222	Human sec
19	253	100.0	960	8	ADA18078	Human sec
20	253	100.0	960	8	ACD66803	Human CDN
21	253	100.0	960	8	ACD82964	Human PRO
22	253	100.0	960	8	ADA16053	Human sec
23	253	100.0	960	8	ADA42198	Human sec
24	253	100.0	960	8	ACD23142	Human PRO
25	253	100.0	960	8	ADA16477	Human sec
26	253	100.0	960	8	ADA12906	Human sec
27	253	100.0	960	8	ADA41774	Human sec
28	253	100.0	960	8	ADA17121	Human sec
29	253	100.0	960	8	ADA42624	Human sec
30	253	100.0	960	8	ACD23504	Human PRO
31	253	100.0	960	9	ADB77543	Human sec
32	253	100.0	960	9	ADB74679	Human sec
33	253	100.0	960	9	ADC28325	Human sec
34	253	100.0	960	9	ADC39525	Human sec
35	253	100.0	960	9	ADC40039	Human sec
36	253	100.0	960	9	ADC18867	Human sec
37	253	100.0	960	9	ADC34163	Human sec
38	253	100.0	960	9	ADC29218	Human sec
39	253	100.0	960	9	ADC28749	Human sec
40	253	100.0	960	9	ADC40634	Human sec
41	253	100.0	960	9	ADC19291	Human sec
42	253	100.0	960	9	ADC33739	Human sec
43	253	100.0	960	9	ADC12809	Human sec
44	253	100.0	960	9	ADC12261	Human sec
45	253	100.0	960	9	ADD04816	Human sec

ALIGNMENTS

RESULT 1
AAV80395
ID   AAV80395 standard; DNA; 253 BP.
XX
AC   AAV80395;
XX
DT   23-FEB-1999 (first entry)
XX
DE   Nucleotide sequence of UT116 gene-specific clone 3969672.
XX
KW   UT116; urinary tract; epitope; antigen; detection; diagnosing;
KW   monitoring; in vivo imaging; cancer; agonist; antibody; tumour;
KW   metastasis; ss.
XX
OS   Homo sapiens.
XX
XX
PN   WO9851824-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998; 98WO-US009972.
XX
PR   15-MAY-1997; 97US-00856652.
XX
PA   (ABBO) ABBOTT LAB.
XX
PI   Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Granados EN;
PI   Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L, Russell JC;
PI   Stroupe SD;
XX
DR   WPI; 1999-045237/04.
XX
PT   New method for detecting diseases of the urinary tract - comprises use of
PT   a UT116 polynucleotide, protein or antibodies, used for preventing and
PT   treating urinary tract infections and cancer.
XX
PS   Claim 1; Fig 1A-C; 113pp; English.
XX
CC   sequences AAV80386 to AAV80396 represent partially overlapping nucleotide
CC   sequences of the UT116 gene-specific clones derived from urinary tract
CC   tissue. The invention relates to a method of detecting the presence of a
CC   target UT116 polynucleotide in a test sample using these UT116-specific
CC   sequences. Host cells transfected with an expression vector containing
CC   the UT116 gene can be used to produce a UT116 polypeptide recombinantly.
CC   This polypeptide has at least one UT116 epitope which can be used in a
CC   method for detecting UT116 antigen in a test sample. The polynucleotides

```
CC   and polypeptides are useful for detecting, diagnosing, monitoring,
CC   staging, prognosticating, in vivo imaging, preventing, treating or
CC   determining the predisposition of a subject to diseases and conditions of
CC   the urinary tract, such as urinary tract cancer. Antibodies specifically
CC   binding to an epitope of UT116 antigen, and agonists are useful for
CC   treating urinary tract diseases, tumours and metastases
XX
SQ   Sequence 253 BP; 58 A; 62 C; 88 G; 45 T; 0 U; 0 Other;

Query Match             100.0%;  Score 253;  DB 2;  Length 253;
Best Local Similarity   100.0%;  Pred. No. 7.9e-62;
Matches    253;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACCAGGCA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACCAGGCA 60

Qy         61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120

Qy        121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGAAGGGGGCCA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGAAGGGGGCCA 180

Qy        181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240

Qy        241 ACACCTGTTGGAT 253
              |||||||||||||
Db        241 ACACCTGTTGGAT 253

RESULT 2
AAV68612
ID   AAV68612 standard; cDNA; 253 BP.
XX
AC   AAV68612;
XX
DT   16-MAR-1999  (first entry)
XX
DE   Human PS116 EST clone 3969672.
XX
KW   Human; expressed sequence tag; EST; prostate disease; diagnosis; tumour;
KW   detection; therapy; prostate cancer; metastasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO9851805-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;  98WO-US010041.
XX
PR   15-MAY-1997;  97US-00856653.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Gordon J;
PI   Granados EN, Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L;
PI   Russell JC, Stroupe SD;
XX
DR   WPI; 1999-045234/04.
XX
PT   New method for detecting diseases of the prostate - comprises use of a
PT   PS116 polynucleotide, protein or antibodies, useful for preventing and
PT   treating prostate infections and cancer.
XX
PS   Claim 1; Page 93-94; 118pp; English.
XX
CC   This sequence represents an expressed sequence tag (EST) clone of the
CC   PS116 gene isolated from a human prostate tissue library. This sequence
```

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CC   can be used in the method of the invention for detecting a target PS116
CC   polynucleotide (PN), that comprises: contacting a sample with at least 1
CC   PS116-specific PN or complement; and detecting the target PS116 PN, where
CC   the specific PN has at least 50% identity with this sequence. The PNs,
CC   PS116 polypeptides or PS116 amplicons are used to detect prostate
CC   disease. Antibodies (ABs) against PS116 are used in assay kits to detect
CC   PS116 antigen or anti-PS116 Ab, and the Abs are preferably attached to a
CC   solid phase. The polypeptides are used for detecting PS116-specific Abs
CC   in a sample, and for producing Abs after immunising a subject. Plasmids
CC   encoding PS116 epitopes can also be administered to a subject to obtain
CC   Abs. The cDNAs and polypeptides are useful for detecting, diagnosing,
CC   staging, monitoring, prognosticating, in vivo imaging, preventing,
CC   treating or determining the predisposition of a subject to diseases and
CC   conditions of the prostate, such as prostate cancer. The Abs and agonists
CC   or inhibitors are useful for treating prostate diseases, tumours and
CC   metastases
XX
SQ   Sequence 253 BP; 58 A; 62 C; 88 G; 45 T; 0 U; 0 Other;

Query Match             100.0%;  Score 253;  DB 2;  Length 253;
Best Local Similarity   100.0%;  Pred. No. 7.9e-62;
Matches    253;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACCAGGCA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACCAGGCA 60

Qy         61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120

Qy        121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGAAGGGGGCCA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGAAGGGGGCCA 180

Qy        181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240

Qy        241 ACACCTGTTGGAT 253
              |||||||||||||
Db        241 ACACCTGTTGGAT 253

RESULT 3
AAZ24404
ID   AAZ24404 standard; cDNA; 758 BP.
XX
AC   AAZ24404;
XX
DT   14-FEB-2000  (first entry)
XX
DE   Human bladder tumour cDNA library derived EST 16.
XX
KW   Human; expressed sequence tag; human; bladder; tumour; cancer; cytostatic;
KW   treatment; gene therapy; EST; ss.
XX
OS   Homo sapiens.
XX
PN   DE19818619-A1.
XX
PD   28-OCT-1999.
XX
PF   21-APR-1998;  98DE-01018619.
XX
PR   21-APR-1998;  98DE-01018619.
XX
PA   (META-) METAGEN GES GENOMFORSCHUNG MBH.
XX
PI   Rosenthal A, Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E;
XX
DR   WPI; 1999-612028/53.
XX
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PT    New nucleic acid sequences expressed in bladder tumor tissue, and derived
PT    polypeptides, for treatment of bladder tumor and identification of
PT    therapeutic agents.
XX
PS    Claim 3; Page 72; 132pp; German.
XX
CC    This invention describes novel polypeptide fragments (I) and the
CC    polynucleotides (II) that encode them that are highly expressed in a
CC    human bladder tumour and which have cytostatic activity. (II) are used
CC    for recombinant expression of (I) and to isolate complete genes. (I) are
CC    used to identify agents suitable for treatment of bladder cancer, to
CC    directly treat this form of cancer (including expression from gene
CC    therapy vectors) or are used in a preparation for cancer treatment. (I)
CC    is also used for the generation of specific antibodies. (II) are
CC    identified by assembling ESTs (expressed sequence tags) from a particular
CC    tissue type before comparison of expression patterns. This allows a
CC    significantly longer fragment of the gene to be revealed, and therefore
CC    reduces the number of failures associated with the fact that ESTs from
CC    different libraries may represent different parts of the same unknown
CC    gene, distorting the estimated frequency of occurrence in a particular
CC    tissue. AA243260-243309 represent expressed sequence tag (EST) fragments
CC    isolated from a human bladder tumour cDNA library which encode the
CC    proteins represented in AAV66143-Y66198
XX
SQ    Sequence 758 BP; 147 A; 261 C; 212 G; 138 T; 0 U; 0 Other;

Query Match              100.0%;     Score 253;  DB 2;  Length 758;
Best Local Similarity    100.0%;     Pred. No. 1e-61;
Matches  253;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps     0;

Qy     1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTCCCCCGCACCCAGAGGGGACAGGCA  60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   489 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTCCCCCGCACCCAGAGGGGACAGGCA 548

Qy    61 CTCAGGAGGGCCCCAGTAAAGGCTGAGATGAAGTGACTAGAACTGGAGGACAAGAG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   549 CTCAGGAGGGCCCCAGTAAAGGCTGAGATGAAGTGACTAGAACTGGAGGACAAGAG 608

Qy   121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGAGGAAGGGGCCA 180
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   609 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGCCTGAGGAAGGGGCCA 668

Qy   181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCTGAGCACAGCGTAGGCCCTTAATAA 240
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   669 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCTGAGCACAGCGTAGGCCCTTAATAA 728

Qy   241 ACACCTGTTCGAT 253
           |||||||||||||
Db   729 ACACCTGTTCGAT 741
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RESULT 4
AAX52217
ID    AAX52217 standard; DNA; 960 BP.
XX
AC    AAX52217;
XX
DT    25-JUN-1999 (first entry)
XX
DE    Protein PRO232 cDNA clone DNA34435-1140.
XX
KW    Secreted protein; transmembrane protein; human; enterocolitis;
KW    Zollinger-Ellison syndrome; gastrointestinal ulceration;
KW    congenital microvillus atrophy; skin disease; cell growth;
KW    abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW    Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
KW    dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;
KW    wound healing; tissue repair; ss.
XX
OS    Homo sapiens.
XX
PN    WO991432B-A2.
XX
```

```
PD    25-MAR-1999.
XX
PF    98WO-US019330.
XX
PR    97US-0059113P.
PR    97US-0059115P.
PR    97US-0059117P.
PR    97US-0059119P.
PR    97US-0059121P.
PR    97US-0059122P.
PR    97US-0059184P.
PR    97US-0059263P.
PR    97US-0059266P.
PR    97US-0062125P.
PR    97US-0062285P.
PR    97US-0062287P.
PR    97US-0063486P.
PR    97US-0062814P.
PR    97US-0062816P.
PR    97US-0063045P.
PR    97US-0063120P.
PR    97US-0063121P.
PR    97US-0063177P.
PR    97US-0063128P.
PR    97US-0063327P.
PR    97US-0063329P.
PR    97US-0063541P.
PR    97US-0063542P.
PR    97US-0063544P.
PR    97US-0063549P.
PR    97US-0063550P.
PR    97US-0063564P.
PR    97US-0063435P.
PR    97US-0063704P.
PR    97US-0063732P.
PR    97US-0063734P.
PR    97US-0063735P.
PR    97US-0063738P.
PR    97US-0064215P.
PR    97US-0063870P.
PR    97US-0064103P.
PR    97US-0064248P.
PR    97US-0064809P.
PR    97US-0065186P.
PR    97US-0065846P.
PR    97US-0065693P.
PR    97US-0066120P.
PR    97US-0066364P.
PR    97US-0064453P.
PR    97US-0066466P.
PR    97US-0066511P.
PR    97US-0066770P.
PR    97US-0066772P.
PR    97US-0066840P.
XX
PA    (GETH ) GENENTECH INC.
XX
PI    Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
XX
DR    WPI; 1999-229533/19.
DR    P-PSDB; AAY13347.
XX
PT    New isolated human genes and polypeptides used in, e.g. treatment of
PT    gastrointestinal ulceration.
XX
PS    Claim 2; Fig 8; 320pp; English.
XX
CC    AAX52213-74 encode secreted and transmembrane human proteins, and are
CC    obtained from cDNA libraries, prepared from fetal lung, fetal kidney,
CC    fetal brain, fetal liver and fetal retina. The encoded polypeptides have
CC    specific uses based on their homology to known polypeptides, e.g. PRO211
CC    and PRO217 can be used for disorders associated with the preservation and
CC    maintenance of gastrointestinal mucosa and the repair of acute and
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CC   chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome,
CC   gastrointestinal ulceration and congenital microvillus atrophy), skin
CC   diseases associated with abnormal keratinocyte differentiation (e.g.
CC   psoriasis, epithelial cancers such as lung squamous cell carcinoma of the
CC   vulva and gliomas), potent effects on cell growth and development,
CC   diseases related to growth or survival of nerve cells including
CC   Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer.
CC   PRO265 can be used as for fibromodulin, e.g. for reducing dermal
CC   scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may
CC   be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can
CC   be used as an anti-thrombotic agent; PRO287 polypeptides and portions may
CC   have therapeutic applications in wound healing and tissue repair; PRO317
CC   can be used for treating problems of the kidney, uterus, endometrium,
CC   blood vessels, or related tissue, e.g. in the heart of genital tract
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             100.0%;  Score 253;  DB 2;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 1.1e-61;
Matches  253;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 ATCTATGACTTGAGCCAGGTCTGTCCGTGTCCCCCGCACCCAGCAGGGACAGGCA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    696 ATCTATGACTTGAGCCAGGTCTGTCCGTGTCCCCCGCACCCAGCAGGGACAGGCA 755

Qy     61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGAGACTGAGACTGAGGACAAGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGAGACTGAGACTGAGGACAAGAG 815

Qy    121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGGGGCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGGGGCCA 875

Qy    181 GGGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCACAGCGTAGGCCCTTAATAA 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    876 GGGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCACAGCGTAGGCCCTTAATAA 935

Qy    241 ACACCTGTTGGAT 253
          |||||||||||||
Db    936 ACACCTGTTGGAT 948

RESULT 5
AAF72375
ID   AAF72375 standard; cDNA; 960 BP.
XX
AC   AAF72375;
XX
DT   24-APR-2001  (first entry)
XX
DE   Human PRO232 cDNA.
XX
KW   Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
KW   antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
KW   antiangiogenic; vasotropic; antiasthmatic; antirheumatic; diabetes;
KW   antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes;
KW   ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
KW   ischaemia; inflammation; expressed sequence tag; EST; ss.
XX
OS   Homo sapiens.
XX
PN   WO20010431l-A1.
XX
PD   18-JAN-2001.
XX
PF   22-FEB-2000; 2000WO-US004414.
XX
PR   07-JUL-1999; 99US-0143048P.
PR   26-JUL-1999; 99US-0145698P.
PR   28-JUL-1999; 99US-0146222P.
PR   08-SEP-1999; 99WO-US020594.
PR   13-SEP-1999; 99WO-US020944.
PR   15-SEP-1999; 99WO-US021090.
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PR   15-SEP-1999; 99WO-US021547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
PR   30-NOV-1999; 99WO-US028313.
PR   02-DEC-1999; 99WO-US028564.
PR   02-DEC-1999; 99WO-US028565.
PR   16-DEC-1999; 99WO-US030095.
PR   20-DEC-1999; 99WO-US030911.
PR   20-DEC-1999; 99WO-US030999.
PR   05-JAN-2000; 2000WO-US000219.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI   Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI   Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin IJ;
PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI   Williams PM, Wood WI;
XX
DR   WPI; 2001-081051/09.
XX
PT   Sixty one nucleic acids encoding PRO polypeptides which are useful in the
PT   treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous
PT   cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
PT   disease).
XX
PS   Claim 2; Fig 8; 393pp; English.
XX
CC   The present sequence is an EST used to isolate one of sixty one nucleic
CC   acids encoding novel secreted and transmembrane PRO polypeptides. The PRO
CC   polypeptides are useful for treating skin diseases (e.g. psoriasis),
CC   cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders
CC   (e.g. enterocolitis), neurodegenerative diseases (e.g. Alzheimer's
CC   disease, Parkinson's disease), wound repair, cardiovascular disorders
CC   (e.g. endometrial bleeding angiogenesis, ischaemias such as coronary
CC   ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma,
CC   rheumatoid arthritis, multiple sclerosis), infertility, AIDS and diabetes
CC   and retinal disorders such as retinitis pigmentosum. The PRO nucleic
CC   acids have applications in molecular biology, including use as
CC   hybridization probes, and in chromosome and gene mapping
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             100.0%;  Score 253;  DB 4;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 1.1e-61;
Matches  253;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 ATCTATGACTTGAGCCAGGTCTGTCCGTGTCCCCCGCACCCAGCAGGGACAGGCA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    696 ATCTATGACTTGAGCCAGGTCTGTCCGTGTCCCCCGCACCCAGCAGGGACAGGCA 755

Qy     61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGAGACTGAGACTGAGGACAAGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGAGACTGAGACTGAGGACAAGAG 815

Qy    121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGGGGCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGGGGCCA 875

Qy    181 GGGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCACAGCGTAGGCCCTTAATAA 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    876 GGGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCACAGCGTAGGCCCTTAATAA 935

Qy    241 ACACCTGTTGGAT 253
          |||||||||||||
Db    936 ACACCTGTTGGAT 948

RESULT 6
ABK40257
ID   ABK40257 standard; cDNA; 960 BP.
XX
AC   ABK40257;
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```
Db    756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG  815

Qy    121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCA  180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCA  875

Qy    181 GGCTCACATTCGTGGGGCGTCCCTGAATGGCAGCAGCAGACAGCGGTAGGCCCTTAATAA  240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    876 GGCTCACATTCGTGGGGCGTCCCTGAATGGCAGCAGCCTGAGCACAGCGGTAGGCCCTTAATAA  935

Qy    241 ACACCTGTTGGAT  253
              |||||||||||||
Db    936 ACACCTGTTGGAT  948
```

RESULT 7
ACA58909
```
ID   ACA58909 standard; cDNA; 960 BP.
XX
AC   ACA58909;
XX
DT   16-JUN-2003  (first entry)
XX
DE   Human PRO polynucleotide #4.
XX
KW   Human; PRO; gene; ss; secreted polypeptide; transmembrane polypeptide;
KW   pathological disorder; cardiac insufficiency disorder; protein secretion;
KW   pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
KW   skin disease; keratinocyte differentiation; epithelial cancer; tumour;
KW   lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
KW   cytostatic; cardiant; endocrine; antidiabetic; gastrointestinal;
KW   antiulcer; dermatological; vulnerary.
XX
OS   Homo sapiens.
XX
PN   US2002146709-A1.
XX
PD   10-OCT-2002.
XX
PF   18-JUL-2001; 2001US-00909088.
XX
PR   17-SEP-1997;     97US-0059113P.
PR   17-SEP-1997;     97US-0059115P.
PR   17-SEP-1997;     97US-0059117P.
PR   17-SEP-1997;     97US-0059119P.
PR   17-SEP-1997;     97US-0059121P.
PR   17-SEP-1997;     97US-0059122P.
PR   17-SEP-1997;     97US-0059184P.
PR   18-SEP-1997;     97US-0059263P.
PR   18-SEP-1997;     97US-0059266P.
PR   15-OCT-1997;     97US-0062125P.
PR   17-OCT-1997;     97US-0062285P.
PR   17-OCT-1997;     97US-0062287P.
PR   21-OCT-1997;     97US-0063486P.
PR   24-OCT-1997;     97US-0062814P.
PR   24-OCT-1997;     97US-0062816P.
PR   24-OCT-1997;     97US-0063045P.
PR   24-OCT-1997;     97US-0063120P.
PR   24-OCT-1997;     97US-0063121P.
PR   24-OCT-1997;     97US-0063127P.
PR   24-OCT-1997;     97US-0063128P.
PR   27-OCT-1997;     97US-0063327P.
PR   27-OCT-1997;     97US-0063329P.
PR   28-OCT-1997;     97US-0063541P.
PR   28-OCT-1997;     97US-0063542P.
PR   28-OCT-1997;     97US-0063544P.
PR   28-OCT-1997;     97US-0063549P.
PR   28-OCT-1997;     97US-0063550P.
PR   28-OCT-1997;     97US-0063564P.
PR   29-OCT-1997;     97US-0063435P.
PR   29-OCT-1997;     97US-0063704P.
PR   29-OCT-1997;     97US-0063732P.
PR   29-OCT-1997;     97US-0063734P.
```

```
XX
DT   15-JUL-2002  (first entry)
XX
DE   cDNA encoding human PRO232 polypeptide.
XX
KW   Human; PRO; benign tumour; malignant tumour; lymphoid malignancy;
KW   leukaemia; neuronal disorder; stromal disorder; blastocoelic disorder;
KW   inflammatory disorder; immune disorder; angiogenic disorder;
KW   gene therapy; cytostatic; neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   WO200153486-A1.
XX
PD   26-JUL-2001.
XX
PF   11-FEB-2000; 2000WO-US003565.
XX
PR   08-MAR-1999;     99WO-US005028.
PR   11-MAR-1999;     99US-0123972P.
PR   11-MAY-1999;     99US-0133459P.
PR   02-JUN-1999;     99WO-US012252.
PR   22-JUN-1999;     99US-0140650P.
PR   22-JUN-1999;     99US-0140653P.
PR   20-JUL-1999;     99US-0147758P.
PR   26-JUL-1999;     99US-0145698P.
PR   28-JUL-1999;     99US-0146222P.
PR   17-AUG-1999;     99US-0149395P.
PR   31-AUG-1999;     99US-0151689P.
PR   01-SEP-1999;     99WO-US020111.
PR   15-SEP-1999;     99WO-US021090.
PR   30-NOV-1999;     99US-US028313.
PR   01-DEC-1999;     99WO-US028301.
PR   01-DEC-1999;     99WO-US028634.
PR   05-JAN-2000;     2000WO-US000219.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ,  Goddard A,  Godowski PJ,  Gurney AL,  Hillan KJ;
PI   Marsters SA,  Pan J,  Pitti RM,  Roy MA,  Smith V,  Stone DM;
PI   Watanabe CK,  Wood WI;
XX
DR   WPI; 2002-205567/26.
DR   P-PSDB; AAU86131.
XX
PT   Thirty five nucleic acids encoding PRO polypeptides, useful for treating
PT   benign or malignant tumors, leukaemias and lymphoid malignancies,
PT   inflammatory, angiogenic and immunologic disorders.
XX
PS   Claim 50; Fig 7; 302pp; English.
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides and the polynucleotide sequences encoding them. The PRO
CC   polypeptides, agonists, antagonists or anti-PRO antibodies are useful for
CC   treating benign or malignant tumours (e.g. renal, kidney, bladder,
CC   breast, etc), leukaemias and lymphoid malignancies, other disorders such
CC   as neuronal, glial, astrocytal, hypothalamic, glandular, macrophagal,
CC   stromal and blastocoelic disorders, inflammatory, immune and angiogenic
CC   disorders. The polynucleotide sequences are also useful in gene therapy.
CC   ABK40254-ABK40288 encode for the human PRO polypeptides of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match      100.0%;  Score 253;  DB 6;  Length 960;
Best Local Similarity  100.0%;  Pred. No. 1.1e-61;
Matches  253;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy      1 ATCTATGACTTGAGCCAGGTCGTCCGTGGGTCCCCCGCACCCAGCAGGGGGACCAGGCA  60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    696 ATCTATGACTTGAGCCAGGTCGTCCGTGGGTCCCCGCGACCCAGCAGGGGGGACCAGGCA  755

Qy     61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG  120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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CC    differentiation (e.g., psoriases, epithelial cancers such as lung
CC    squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).
CC    The sequences can be used as molecular markers for protein
CC    electrophoresis purposes and can be utilised in protein-protein binding
CC    assays, biochemical screening assays, immunoassays and cell-based assays.
CC    This sequence represents a human PRO polynucleotide of the invention
XX
SQ    Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

      Query Match             100.0%;  Score 253;  DB 7;  Length 960;
      Best Local Similarity   100.0%;  Pred. No. 1.1e-61;
      Matches  253;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy            1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCCAGGGGGACCAGGCA 60
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          696 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCCAGGGGGACCAGGCA 755

Qy           61 CTCAGGAGGGGCCCAGTAAAGCTGAGATGAAGTGGACTGAGTAGAACTGAGGGACAAGAG 120
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          756 CTCAGGAGGGGCCCAGTAAAGCTGAGATGAAGTGGACTGAGTAGAACTGAGGGACAAGAG 815

Qy          121 TCGACTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGGCTGGAGGGGGGCCA 180
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          816 TCGACTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGGCTGGAGGGGGGCCA 875

Qy          181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 935

Qy          241 ACACCTGTTGGAT 253
                |||||||||||||
Db          936 ACACCTGTTGGAT 948


RESULT 8
ACA58306
ID   ACA58306 standard; cDNA; 960 BP.
XX
AC   ACA58306;
XX
DT   10-JUN-2003  (first entry)
XX
DE   cDNA encoding human PRO polypeptide #4.
XX
KW   Human; secreted and transmembrane protein; PRO polypeptide; cancer;
KW   Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic;
KW   neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2002192659-A1.
XX
PD   19-DEC-2002.
XX
PF   10-JUL-2001; 2001US-00902853.
XX
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0062125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062814P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   29-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0065186P.
PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0065693P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0066364P.
PR   24-NOV-1997;   97US-0066453P.
PR   24-NOV-1997;   97US-0066466P.
PR   24-NOV-1997;   97US-0066511P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   01-DEC-1998;   98WO-US025108.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.
PR   30-MAR-2000;   2000WO-US008433.
PR   22-MAY-2000;   2000WO-US014042.
PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.
PR   18-SEP-2000;   2000US-00665350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,  Botstein D,  Desnoyers L,  Eaton DL,  Ferrara N;
PI   Filvaroff E,  Fong S,  Gao W,  Gerber H,  Gerritsen ME,  Goddard A;
PI   Godowski PJ,  Grinaldi JC,  Gurney AL,  Hillan KJ,  Kljavin IJ;
PI   Mather JP,  Pan J,  Paoni NF,  Roy MA,  Stewart TA,  Tumas D;
PI   Williams PM,  Wood WI;
XX
DR   WPI; 2003-328338/31.
DR   P-PSDB; ABU71593.
XX
PT   Isolated nucleic acid useful for e.g., treating pathological disorders
PT   encodes a secreted or transmembrane protein.
XX
PS   Claim 2; Fig 8; 473pp; English.
XX
CC   The invention relates to human PRO polypeptides (secreted or
CC   transmembrane polypeptides) and the polynucleotides encoding them. The
CC   PRO polypeptides and polynucleotides can be used in treating pathological
CC   disorders and tumours, in therapeutic treatment of cardiac insufficiency
CC   disorders and in therapeutic treatment of disorders involving protein
CC   secretion by the pancreas, including diabetes. They can also be used in
CC   treating disorders associated with the preservation and maintenance of
CC   gastrointestinal mucosa and the repair of acute and chronic mucosal
CC   lesions, and skin diseases associated with abnormal keratinocyte
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XX
PT   New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or
PT   PRO1868, useful in molecular biology, chromosome and gene mapping, in
PT   generating antisense RNA and DNA, and in gene therapy.
XX
PS   Claim 2; Fig 8; 474pp; English.
XX
CC   The present invention relates to the isolation of novel human secreted
CC   and transmembrane proteins (PRO polypeptides), and the polynucleotide
CC   sequences encoding them. The polynucleotide sequences are useful in
CC   molecular biology, as hybridisation probes, in chromosome and gene
CC   mapping, in generating antisense RNA and DNA, and in gene therapy. The
CC   polynucleotide sequences may also be used in preparing PRO polypeptides
CC   by recombinant techniques, and in generating either transgenic animals or
CC   knock-out animals which, in turn, are useful in the development and
CC   screening of therapeutically useful reagents. The PRO polypeptides or
CC   their antibodies are useful in preparing a medicament for treating a
CC   condition responsive to the polypeptide or antibody, such as cancer,
CC   Alzheimer's disease or ischaemia, and in various diagnostic assays. The
CC   present sequence encodes a human PRO polypeptide of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   100.0%; Score 253; DB 7; Length 960;
Best Local Similarity   100.0%;
  Matches 253; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 ATCTATGACTTGAGCCAGGTCTCGGTCCGTGGTGTCCCCGCACCCAGCCAGGGGACAGGCA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   696 ATCTATGACTTGAGCCAGGTCTCGGTCCGTGGTGTCCCCGCACCCAGCCAGGGGACAGGCA 755

Qy   61 CTCAGGAGGGGCCCAGTAAAGCTGAGTGAGATGAGTGACTGAGTGAACTGGAGGACAAGAG 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   756 CTCAGGAGGGGCCCAGTAAAGCTGAGTGAGATGAGTGACTGAGTGAACTGGAGGACAAGAG 815

Qy   121 TCGACGTGAGTCCTGGGAGTCTCCAGAGATGGGCAGCCTGAGCACCAGCGGTAGGGGGCCA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   816 TCGACGTGAGTCCTGGGAGTCTCCAGAGATGGGCAGCCTGAGCACCAGCGGTAGGGGGCCA 875

Qy   181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCAGCCAGCAGCACCAGCGGTAGGGGGCCTAATAA 240
              |||||||||||||||||||||||||||||||||||||||||
Db   876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCAGCCAGCAGCACCAGCGGTAGGGGGCCTAATA 935

Qy   241 ACACCTGTTGGAT 253
              |||||||||||||
Db   936 ACACCTGTTGGAT 948

RESULT 9
ACA60013
ID   ACA60013 standard; cDNA; 960 BP.
XX
AC   ACA60013;
XX
DT   12-JUN-2003 (first entry)
XX
DE   Human cDNA for secreted/transmembrane protein PRO232.
XX
KW   Human; ss; gene; secreted protein; transmembrane protein; PRO;
KW   gene therapy; chromosome identification; chromosome marker.
XX
OS   Homo sapiens.
XX
PN   US2003003530-A1.
XX
PD   02-JAN-2003.
XX
PF   11-JUL-2001; 2001US-0090401.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.

PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063128P.
PR   27-OCT-1997; 97US-0063327P.
PR   27-OCT-1997; 97US-0063229P.
PR   28-OCT-1997; 97US-0063541P.
PR   28-OCT-1997; 97US-0063542P.
PR   28-OCT-1997; 97US-0063544P.
PR   28-OCT-1997; 97US-0063549P.
PR   28-OCT-1997; 97US-0063550P.
PR   28-OCT-1997; 97US-0063564P.
PR   29-OCT-1997; 97US-0063435P.
PR   29-OCT-1997; 97US-0063704P.
PR   29-OCT-1997; 97US-0063732P.
PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064248P.
PR   07-NOV-1997; 97US-0064809P.
PR   12-NOV-1997; 97US-0065186P.
PR   17-NOV-1997; 97US-0065846P.
PR   18-NOV-1997; 97US-0065693P.
PR   21-NOV-1997; 97US-0066120P.
PR   21-NOV-1997; 97US-0066364P.
PR   24-NOV-1997; 97US-0066453P.
PR   24-NOV-1997; 97US-0066466P.
PR   24-NOV-1997; 97US-0066511P.
PR   24-NOV-1997; 97US-0066770P.
PR   24-NOV-1997; 97US-0066772P.
PR   10-SEP-1998; 98WO-US018824.
PR   14-SEP-1998; 98WO-US019177.
PR   16-SEP-1998; 98WO-US019330.
PR   17-SEP-1998; 98WO-US019437.
PR   17-SEP-1998; 98WO-US025108.
PR   08-SEP-1999; 99WO-US020594.
PR   13-SEP-1999; 99WO-US020944.
PR   15-SEP-1999; 99WO-US021090.
PR   15-SEP-1999; 99WO-US021547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
PR   30-NOV-1999; 99WO-US028313.
PR   01-DEC-1999; 99WO-US028301.
PR   02-DEC-1999; 99WO-US028564.
PR   02-DEC-1999; 99WO-US028565.
PR   16-DEC-1999; 99WO-US030095.
PR   20-DEC-1999; 99WO-US030911.
PR   20-DEC-1999; 99WO-US030099.
PR   05-JAN-2000; 2000WO-US000219.
PR   11-FEB-2000; 2000WO-US003565.
PR   22-FEB-2000; 2000WO-US004414.
PR   24-FEB-2000; 2000WO-US005004.
PR   02-MAR-2000; 2000WO-US005841.
PR   20-MAR-2000; 2000WO-US007377.
PR   30-MAR-2000; 2000WO-US008439.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   28-JUL-2000; 2000WO-US020710.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-0066535O.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-361832/34.
DR   P-PSDB; ABU71448.

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PR    17-SEP-1997;    97US-0059121P.
PR    17-SEP-1997;    97US-0059122P.
PR    17-SEP-1997;    97US-0059184P.
PR    18-SEP-1997;    97US-0059263P.
PR    18-SEP-1997;    97US-0059266P.
PR    15-OCT-1997;    97US-0062125P.
PR    17-OCT-1997;    97US-0062285P.
PR    17-OCT-1997;    97US-0062287P.
PR    21-OCT-1997;    97US-0063486P.
PR    24-OCT-1997;    97US-0062814P.
PR    24-OCT-1997;    97US-0062816P.
PR    24-OCT-1997;    97US-0063045P.
PR    24-OCT-1997;    97US-0063120P.
PR    24-OCT-1997;    97US-0063121P.
PR    24-OCT-1997;    97US-0063127P.
PR    24-OCT-1997;    97US-0063128P.
PR    27-OCT-1997;    97US-0063327P.
PR    27-OCT-1997;    97US-0063329P.
PR    28-OCT-1997;    97US-0063541P.
PR    28-OCT-1997;    97US-0063542P.
PR    28-OCT-1997;    97US-0063544P.
PR    28-OCT-1997;    97US-0063549P.
PR    28-OCT-1997;    97US-0063550P.
PR    28-OCT-1997;    97US-0063564P.
PR    28-OCT-1997;    97US-0063435P.
PR    29-OCT-1997;    97US-0063704P.
PR    29-OCT-1997;    97US-0063732P.
PR    29-OCT-1997;    97US-0063734P.
PR    29-OCT-1997;    97US-0063735P.
PR    29-OCT-1997;    97US-0063738P.
PR    29-OCT-1997;    97US-0064215P.
PR    31-OCT-1997;    97US-0063870P.
PR    31-OCT-1997;    97US-0064103P.
PR    03-NOV-1997;    97US-0064248P.
PR    07-NOV-1997;    97US-0064809P.
PR    12-NOV-1997;    97US-0065186P.
PR    17-NOV-1997;    97US-0065846P.
PR    18-NOV-1997;    97US-0065693P.
PR    21-NOV-1997;    97US-0066120P.
PR    21-NOV-1997;    97US-0066364P.
PR    24-NOV-1997;    97US-0066453P.
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PR    24-NOV-1997;    97US-0066772P.
PR    10-SEP-1998;    98WO-US018824.
PR    14-SEP-1998;    98WO-US019177.
PR    16-SEP-1998;    98WO-US019330.
PR    17-SEP-1998;    98WO-US019437.
PR    01-DEC-1998;    98WO-US025108.
PR    08-SEP-1999;    99WO-US020594.
PR    13-SEP-1999;    99WO-US020944.
PR    15-SEP-1999;    99WO-US021090.
PR    15-SEP-1999;    99WO-US021547.
PR    05-OCT-1999;    99WO-US023089.
PR    29-NOV-1999;    99WO-US028214.
PR    30-NOV-1999;    99WO-US028301.
PR    01-DEC-1999;    99WO-US028564.
PR    02-DEC-1999;    99WO-US028565.
PR    16-DEC-1999;    99WO-US030095.
PR    20-DEC-1999;    99WO-US030911.
PR    20-DEC-1999;    99WO-US030999.
PR    05-JAN-2000;    2000WO-US000219.
PR    11-FEB-2000;    2000WO-US003565.
PR    22-FEB-2000;    2000WO-US004414.
PR    24-FEB-2000;    2000WO-US005004.
PR    02-MAR-2000;    2000WO-US005841.
PR    20-MAR-2000;    2000WO-US007377.
PR    30-MAR-2000;    2000WO-US008439.
PR    22-MAY-2000;    2000WO-US014042.
PR    02-JUN-2000;    2000WO-US015264.
PR    28-JUL-2000;    2000WO-US020710.
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PR    24-AUG-2000;    2000WO-US023328.
PR    18-SEP-2000;    2000WO-US0665350.
PA    (GETH ) GENENTECH INC.
PI    Ashkenazi A,    Botstein D,    Desnoyers L,    Eaton DL,    Ferrara N;
PI    Filvaroff E,    Fong S,    Gao W,    Gerber H,    Gerritsen ME,    Goddard A;
PI    Godowski PJ,    Grimaldi JC,    Gurney AL,    Hillan KJ,    Kljavin IJ;
PI    Mather JP,    Pan J,    Paoni NF,    Roy MA,    Stewart TA,    Tumas D;
PI    Williams PM,    Wood WI;
DR    WPI; 2003-329602/31.
DR    P-PSDB; ABU71894.

PT    New transmembrane polypeptides and nucleic acids encoding the
PT    polypeptides, useful in gene therapy, in chromosome identification, as
PT    chromosome markers, in generating probes and in tissue typing.

PS    Claim 2; Fig 8; 484pp; English.

CC    The invention relates to an isolated nucleic acid with at least 80%
CC    nucleic acid sequence identity to a nucleotide sequence encoding one of
CC    61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a
CC    PRO protein extracellular domain. Also included are vector comprising the
CC    the PRO nucleic acid, a host cell comprising the vector, producing a PRO
CC    polypeptide (by culturing the host cell for the expression of the PRO
CC    polypeptide, and recovering the PRO polypeptide from the cell culture),
CC    an isolated PRO polypeptide (having at least 80% sequence identity to: (
CC    a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino
CC    acid sequence encoded by a nucleic acid molecule deposited with an ATCC
CC    number (detailed in the specification); or (c) an extracellular domain of
CC    a PRO polypeptide or to a PRO polypeptide lacking its associated signal
CC    peptide), a chimaeric molecule comprising a PRO polypeptide of fused to a
CC    heterologous amino acid sequence, an anti-PRO antibody, detecting a
CC    PRO245 or PRO1868 in a sample suspected of containing the polypeptide,
CC    linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 and
CC    modulating at least one biological activity of a cell expressing a PRO245
CC    or PRO1868. Nucleic acids which encode PRO can be used to generate either
CC    transgenic animals or knock-out animals which may be used in the
CC    development and screening of therapeutically useful reagents. The nucleic
CC    acids may also be used in gene therapy, in chromosome identification, as
CC    chromosome markers, or in generating probes. The PRO polypeptides are
CC    useful as molecular markers for protein electrophoresis, and the isolated
CC    nucleic acids may be used for recombinantly expressing those markers. The
CC    PRO polypeptides and nucleic acids may also be used in tissue typing.
CC    Anti-PRO antibodies are useful in diagnostic assays for PRO, and in
CC    affinity purification of PRO from recombinant cell culture or natural
CC    sources. The present sequence encodes a PRO protein

SQ    Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

      Query Match             100.0%;  Score 253;  DB 7;  Length 960;
      Best Local Similarity   100.0%;  Pred. No. 1.1e-61;
      Matches  253;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTCTCCCCGCACCCAGCCAGGGGACCAGGCA 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      696 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTCTCCCCGCACCCAGCCAGGGGACCAGGCA 755

Qy       61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAAGAACTGGAGGACAAGAG 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAAGAACTGGAGGACAAGAG 815

Qy      121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGCCTGGAGGGGGCCA 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGCCTGGAGGGGGCCA 875

Qy      181 GGCTTCACATTCGTGGGCCTCCCTGAATGGCAGCCTGAGCAGCAGCGTAGCCCTTAATAA 240
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      876 GGCTTCACATTCGTGGGCCTCCCTGAATGGCAGCCTGAGCAGCAGCGTAGCCCTTAATAA 935

Qy      241 ACACCTGTTGGAT 253
            |||||||||||||
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```
Db           936 ACACCTGTTGGAT 948

RESULT 10
ACD07413
ID     ACD07413 standard; cDNA; 960 BP.
XX
AC     ACD07413;
XX
DT     07-AUG-2003  (first entry)
XX
DE     Novel human secreted and transmembrane protein PRO232 cDNA.
XX
KW     Human; secreted and transmembrane protein; PRO; pharmaceutical;
KW     diagnostic; biosensor; bioreactor; Parkinson's disease;
KW     Alzheimer's disease; inflammation; nephritis; wound healing;
KW     nerve repair; collateral blood vessel formation; cancer;
KW     colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;
KW     cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;
KW     scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;
KW     infertility; gene therapy; gene; ss.
XX
OS     Homo sapiens.
XX
PN     US2002197671-A1.
XX
PD     26-DEC-2002.
XX
PF     17-JUL-2001; 2001US-00907824.
XX
PR     17-SEP-1997;  97US-0059113P.
PR     17-SEP-1997;  97US-0059115P.
PR     17-SEP-1997;  97US-0059117P.
PR     17-SEP-1997;  97US-0059119P.
PR     17-SEP-1997;  97US-0059121P.
PR     17-SEP-1997;  97US-0059122P.
PR     17-SEP-1997;  97US-0059184P.
PR     18-SEP-1997;  97US-0059263P.
PR     18-SEP-1997;  97US-0059266P.
PR     15-OCT-1997;  97US-0062125P.
PR     17-OCT-1997;  97US-0062285P.
PR     17-OCT-1997;  97US-0062287P.
PR     21-OCT-1997;  97US-0063486P.
PR     24-OCT-1997;  97US-0062814P.
PR     24-OCT-1997;  97US-0062816P.
PR     24-OCT-1997;  97US-0063045P.
PR     24-OCT-1997;  97US-0063120P.
PR     24-OCT-1997;  97US-0063121P.
PR     24-OCT-1997;  97US-0063127P.
PR     24-OCT-1997;  97US-0063128P.
PR     27-OCT-1997;  97US-0063327P.
PR     27-OCT-1997;  97US-0063329P.
PR     28-OCT-1997;  97US-0063541P.
PR     28-OCT-1997;  97US-0063542P.
PR     28-OCT-1997;  97US-0063544P.
PR     28-OCT-1997;  97US-0063549P.
PR     28-OCT-1997;  97US-0063550P.
PR     28-OCT-1997;  97US-0063564P.
PR     29-OCT-1997;  97US-0063870P.
PR     29-OCT-1997;  97US-0064103P.
PR     29-OCT-1997;  97US-0063704P.
PR     29-OCT-1997;  97US-0063732P.
PR     29-OCT-1997;  97US-0063734P.
PR     29-OCT-1997;  97US-0063735P.
PR     29-OCT-1997;  97US-0063738P.
PR     29-OCT-1997;  97US-0064215P.
PR     31-OCT-1997;  97US-0064448P.
PR     31-OCT-1997;  97US-0064248P.
PR     03-NOV-1997;  97US-0064809P.
PR     07-NOV-1997;  97US-0065186P.
PR     12-NOV-1997;  97US-0065846P.
PR     17-NOV-1997;  97US-0065593P.
PR     18-NOV-1997;  97US-0066120P.
PR     21-NOV-1997;  97US-0066364P.
PR     24-NOV-1997;  97US-0064453P.
PR     24-NOV-1997;  97US-0064466P.
PR     24-NOV-1997;  97US-0065511P.
PR     24-NOV-1997;  97US-0066770P.
PR     24-NOV-1997;  97US-0066772P.
PR     10-SEP-1998;  98WO-US018824.
PR     14-SEP-1998;  98US-US019177.
PR     16-SEP-1998;  98WO-US019330.
PR     17-SEP-1998;  98WO-US019437.
PR     01-DEC-1998;  98WO-US025108.
PR     08-SEP-1999;  99WO-US020594.
PR     13-SEP-1999;  99WO-US020944.
PR     15-SEP-1999;  99WO-US021090.
PR     15-SEP-1999;  99WO-US021547.
PR     05-OCT-1999;  99WO-US023089.
PR     29-NOV-1999;  99WO-US028214.
PR     30-NOV-1999;  99WO-US028313.
PR     01-DEC-1999;  99WO-US028301.
PR     02-DEC-1999;  99WO-US028564.
PR     02-DEC-1999;  99WO-US028565.
PR     16-DEC-1999;  99WO-US030095.
PR     20-DEC-1999;  99WO-US030911.
PR     20-DEC-1999;  99WO-US030999.
PR     05-JAN-2000;  2000WO-US000219.
PR     11-FEB-2000;  2000WO-US003565.
PR     22-FEB-2000;  2000WO-US004414.
PR     24-FEB-2000;  2000WO-US005004.
PR     02-MAR-2000;  2000WO-US005841.
PR     20-MAR-2000;  2000WO-US007377.
PR     30-MAR-2000;  2000WO-US008439.
PR     22-MAY-2000;  2000WO-US014042.
PR     02-JUN-2000;  2000WO-US015264.
PR     28-JUL-2000;  2000WO-US020710.
PR     24-AUG-2000;  2000WO-US023328.
PR     18-SEP-2000;  2000US-00665350.
XX
PA     (GETH ) GENENTECH INC.
XX
PI     Ashkenazi A,  Botstein D,  Desnoyers L,  Eaton DL,  Ferrara N;
PI     Filvaroff E,  Fong S,  Gao W,  Gerber H,  Gerritsen ME,  Goddard A;
PI     Godowski PJ,  Grimaldi JC,  Gurney AL,  Hillan KJ,  Kljavin IJ;
PI     Mather JP,  Pan J,  Paoni NF,  Roy MA,  Stewart TA,  Tumas D;
PI     Williams PM,  Wood WI;
XX
DR     WPI; 2003-370793/35.
DR     P-PSDB; ABO01777.
XX
PT     New genes and secreted and transmembrane polypeptides (e.g. PRO245 or
PT     PRO335), useful for treating or diagnosing e.g. Alzheimer's disease,
PT     cancers, haemorrhage, rheumatoid arthritis, diabetes, cirrhosis, ischemia
PT     or strokes.
XX
PS     Claim 2; Fig 8; 482pp; English.
XX
CC     The invention describes a new isolated nucleic acid molecule comprising
CC     the full length coding sequence of the DNA deposited with the American
CC     Type Culture Collection (e.g. ATCC Deposit No. 209258) ,or a sequence
CC     with at least 80% identity to a DNA encoding a PRO polypeptide comprising
CC     any of 61 sequences having 164-1119 amino acids fully defined in the
CC     specification. The PRO polypeptides or polynucleotides are useful as
CC     pharmaceuticals, diagnostics, biosensors or bioreactors. These are
CC     particularly useful for detecting or treating e.g. Parkinson's disease,
CC     Alzheimer's disease, inflammation, nephritis, wound healing, nerve
CC     repair, collateral blood vessel formation, cancers (e.g. colorectal
CC     cancer), haemorrhage (or reduce risk for haemorrhage), rheumatoid
CC     arthritis, diabetes, cirrhosis of the liver, fibrosis of the lungs,
CC     restenosis, dermal fibrotic conditions (e.g. keloids or scarring),
CC     ischaemia, strokes, hypertension, heart attacks, atherosclerosis, or
CC     infertility in mammals (e.g. humans, dogs, cats, cattle, horses, sheep,
CC     pigs, goats, or rabbits) The PRO polypeptides are useful as targets for
CC     therapeutic intervention in these diseases, and diagnostic determination
CC     ,of the presence of these diseases. The PRO polypeptides are also useful
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CC    as molecular weight markers, or for chromosome identification. The PRO
CC    genes are useful as hybridisation probes, or for screening libraries of
CC    human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC    therapy, particularly for replacing a defective gene. This sequence
CC    encodes a novel human secreted and transmembrane PRO polypeptide
XX
SQ    Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match       100.0%;  Score 253;  DB 7;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 1.1e-61;
Matches 253;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy     1 ATCTATGACTTGAGCCAGGTCTGTCCCGTGTCCCCGCACCCAGCAGGGGACAGGCA    60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   696 ATCTATGACTTGAGCCAGGTCTGTCCCGTGTCCCCGCACCCAGCAGGGGACAGGCA   755

Qy    61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGGAAGTGGACTGAGTAGAACTGGAGGACAAAGAG   120
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGGAAGTGGACTGAGTAGAACTGGAGGACAAAGAG   815

Qy   121 TCGACGTGAGTTCCTGGGAGTTCTCCAGAGATGGGGCCTGGAGGCCTGAGGAAGGGGCCA   180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   816 TCGACGTGAGTTCCTGGGAGTTCTCCAGAGATGGGGCCTGGAGGCCTGAGGAAGGGGCCA   875

Qy   181 GGGCTCACATTCGTGGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA   240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   876 GGGCTCACATTCGTGGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA   935

Qy   241 ACACCTGTTGGAT   253
         |||||||||||||
Db   936 ACACCTGTTGGAT   948


RESULT 11
ABX71461
ID    ABX71461 standard; cDNA; 960 BP.
XX
AC    ABX71461;
XX
DT    10-MAR-2003  (first entry)
XX
DE    Human cDNA encoding secreted/transmembrane protein PRO232.
XX
KW    Human; PRO; secreted protein; transmembrane protein; enterocolitis;
KW    gastrointestinal ulceration; skin disease; ss; gene;
KW    abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW    squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
KW    amyotrophic lateral sclerosis; inflammatory disease;
KW    rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
KW    atherosclerosis; cardiac injury; infertility; birth defect;
KW    premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
KW    diabetic complication; wound repair.
XX
OS    Homo sapiens.
XX
PN    US2002132240-A1.
XX
PD    19-SEP-2002.
XX
PF    18-JUL-2001; 2001US-00909320.
XX
PR    17-SEP-1997;  97US-0059113P.
PR    17-SEP-1997;  97US-0059115P.
PR    17-SEP-1997;  97US-0059117P.
PR    17-SEP-1997;  97US-0059119P.
PR    17-SEP-1997;  97US-0059121P.
PR    17-SEP-1997;  97US-0059122P.
PR    17-SEP-1997;  97US-0059184P.
PR    18-SEP-1997;  97US-0059263P.
PR    18-SEP-1997;  97US-0059266P.
PR    15-OCT-1997;  97US-0062125P.
PR    17-OCT-1997;  97US-0062285P.
PR    17-OCT-1997;  97US-0062287P.
PR    21-OCT-1997;  97WO-0063486P.
PR    24-OCT-1997;  97US-0062814P.
PR    24-OCT-1997;  97US-0062816P.
PR    24-OCT-1997;  97US-0063045P.
PR    24-OCT-1997;  97US-0063120P.
PR    24-OCT-1997;  97US-0063121P.
PR    24-OCT-1997;  97US-0063127P.
PR    24-OCT-1997;  97US-0063128P.
PR    27-OCT-1997;  97US-0063327P.
PR    27-OCT-1997;  97US-0063329P.
PR    28-OCT-1997;  97US-0063541P.
PR    28-OCT-1997;  97US-0063542P.
PR    28-OCT-1997;  97US-0063544P.
PR    28-OCT-1997;  97US-0063549P.
PR    28-OCT-1997;  97US-0063550P.
PR    28-OCT-1997;  97US-0063564P.
PR    29-OCT-1997;  97US-0063435P.
PR    29-OCT-1997;  97US-0063704P.
PR    29-OCT-1997;  97US-0063732P.
PR    29-OCT-1997;  97US-0063734P.
PR    29-OCT-1997;  97US-0063735P.
PR    29-OCT-1997;  97US-0063738P.
PR    29-OCT-1997;  97US-0064215P.
PR    31-OCT-1997;  97US-0063870P.
PR    31-OCT-1997;  97US-0064103P.
PR    03-NOV-1997;  97US-0064248P.
PR    07-NOV-1997;  97US-0064809P.
PR    12-NOV-1997;  97US-0065186P.
PR    17-NOV-1997;  97US-0065846P.
PR    18-NOV-1997;  97US-0065593P.
PR    21-NOV-1997;  97US-0066120P.
PR    21-NOV-1997;  97US-0063564P.
PR    24-NOV-1997;  97US-0064653P.
PR    24-NOV-1997;  97US-0064466P.
PR    24-NOV-1997;  97US-0065511P.
PR    24-NOV-1997;  97US-0066770P.
PR    24-NOV-1997;  97US-0066772P.
PR    10-SEP-1998;  98WO-US018824.
PR    14-SEP-1998;  98WO-US019177.
PR    16-SEP-1998;  98WO-US019330.
PR    17-SEP-1998;  98WO-US019437.
PR    01-DEC-1998;  98WO-US025108.
PR    08-SEP-1999;  99WO-US020594.
PR    13-SEP-1999;  99WO-US020944.
PR    15-SEP-1999;  99WO-US021090.
PR    15-SEP-1999;  99WO-US021547.
PR    05-OCT-1999;  99WO-US023089.
PR    29-NOV-1999;  99WO-US028214.
PR    30-NOV-1999;  99WO-US028313.
PR    01-DEC-1999;  99WO-US028301.
PR    02-DEC-1999;  99WO-US028564.
PR    02-DEC-1999;  99WO-US028565.
PR    16-DEC-1999;  99WO-US030095.
PR    20-DEC-1999;  99WO-US030911.
PR    20-DEC-1999;  99WO-US030999.
PR    06-JAN-2000;  2000WO-US000219.
PR    11-FEB-2000;  2000WO-US003565.
PR    22-FEB-2000;  2000WO-US004414.
PR    24-FEB-2000;  2000WO-US005004.
PR    02-MAR-2000;  2000WO-US005841.
PR    20-MAR-2000;  2000WO-US007377.
PR    30-MAR-2000;  2000WO-US008439.
PR    22-MAY-2000;  2000WO-US014042.
PR    02-JUN-2000;  2000WO-US015264.
PR    28-JUL-2000;  2000WO-US020710.
PR    24-AUG-2000;  2000WO-US023328.
PR    18-SEP-2000;  2000WO-US065350.
XX
PA    (GETH ) GENENTECH INC.
XX
PI    Ashkenazi A,    Botstein D,   Desnoyers L,   Eaton DL,    Ferrara N;
PI    Filvaroff E,    Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI    Godowski PJ,    Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
```

PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI   Williams PM, Wood WI;
XX
DR   WPI; 2003-147434/14.
DR   P-PSDB; ABU54350.
XX
PT   New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
PT   treating inflammatory diseases, organ failure, atherosclerosis, cardiac
PT   injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
PT   disease.
XX
PS   Claim 2; Fig 8; 473pp; English.
XX
CC   The invention relates to an isolated PRO polypeptide having at least 80%
CC   amino acid sequence identity to: (a) any one of 61 fully defined amino
CC   acid sequences given in the specification (appearing as ABU54347-
CC   ABU54407); (b) an amino acid sequence encoded by the nucleotide sequence
CC   deposited under American Type Culture Collection (accession numbers
CC   listed in the specification); (c) any one of the PRO sequences which
CC   lacks its associated signal peptide; (d) an extracellular domain of the
CC   PRO polypeptide with its associated signal peptide; or (e) an
CC   extracellular domain of the PRO polypeptide which lacks its associated
CC   signal peptide. Also include are the nucleic acids encoding the PRO
CC   polypeptides, vectors, host cells and anti-PRO antibodies. The PRO
CC   polypeptides and nucleic acids are useful in diagnosing or treating
CC   enterocolitis, gastrointestinal ulceration, skin diseases associated with
CC   abnormal keratinocyte differentiation, e.g. psoriasis or epithelial
CC   cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's
CC   disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g.
CC   rheumatoid arthritis, asthma or multiple sclerosis, organ failure,
CC   atherosclerosis, cardiac injury, infertility, birth defects, premature
CC   aging, AIDS, cancer, diabetic complications, or mutations in general. The
CC   polypeptides are also useful for wound repair and associated therapies
CC   concerned with re-growth of tissue. The nucleotide sequences may be used
CC   as hybridisation probes in chromosome and gene mapping, or in generating
CC   antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
CC   polypeptides, in assays to identify other proteins or molecules involved
CC   in binding reaction, to generate transgenic animals or knockout animals,
CC   which in turn are useful in the development and screening of
CC   therapeutically useful reagents, for chromosome identification, and
CC   tissue typing. The PRO polypeptides and nucleic acid molecules are also
CC   useful in gene therapy, and as molecular weight markers for protein
CC   electrophoresis purposes. The anti-PRO antibodies may be used in
CC   diagnostic assays for PRO, or for the affinity purification of PRO from
CC   recombinant cell culture or natural sources. The present sequence encodes
CC   a PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   100.0%;   Score 253;   DB 7;   Length 960;
Best Local Similarity   100.0%;   Pred. No. 1.1e-61;
Matches 253;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

```
Qy        1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACAGCA   60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      696 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACAGCA  755

Qy       61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGTAGAACTGGAGGACAAGAG  120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGTAGAACTGGAGGACAAGAG  815

Qy      121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGGCCTTGGAGGCCTGGAGGAGGGGCCA  180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGGCCTTGGAGGCCTGGAGGAGGGGCCA  875

Qy      181 GGCCTCACATTCGTGGGGCTCCCTGAATGCAGCCAGCACAGCGTAGGCCCTTAATAA  240
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      876 GGCCTCACATTCGTGGGGCTCCCTGAATGCAGCCAGCACAGCGTAGGCCCTTAATAA  935

Qy      241 ACACCTGTTGGAT  253
            |||||||||||||
Db      936 ACACCTGTTGGAT  948
```

CC PRO187 polypeptide is useful for treating Parkinson's disease,
CC Alzheimer's disease, amyotrophic lateral sclerosis (ALS), neuropathies
CC and disease related to uncontrolled cell growth, e.g. cancer. PRO219
CC polypeptide plays a regulatory role in the blood coagulation cascade.
CC PRO246 polypeptides which serves as tumour specific antigens may be
CC exploited as therapeutic targets for anti-tumour drugs. PRO269
CC polypeptide is useful as an antithrombotic agent with reduced risk for
CC haemorrhage as compared with heparin. PRO317 polypeptide is useful in
CC treating endometrial bleeding angiogenesis. PRO287 polypeptides and
CC portion have therapeutic applications in wound healing and tissue repair.
CC PRO234 polypeptides are useful for treating asthma, rheumatoid arthritis,
CC psoriasis and multiple sclerosis. The polypeptide and its nucleic acid
CC are useful for tissue typing. PRO antibodies are useful for
CC immunohistochemical staining and/or assay of sample fluids. Anti-PRO
CC antibodies are useful in diagnostic assays for PRO e.g. detecting its
CC expression in specific cells, tissues or serum and for affinity
CC purification of PRO from recombinant cell culture or natural sources. The
CC present sequence represents cDNA encoding a human secreted/transmembrane
CC PRO polypeptide
XX
SQ Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   100.0%;   Score 253;   DB 7;   Length 960;
Best Local Similarity   100.0%;   Pred. No. 1.1e-61;
Matches 253;   Conservative 0;   Mismatches 0;   Indels 0;   Gaps 0;

Qy   1 ATCTATGACTTGAGCAGGTTCTGGTCCCGTGGTGTCCCCGCACCCAGACAGGGACAGGCA 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 696 ATCTATGACTTGAGCAGGTTCTGGTCCCGTGGTGTCCCCGCACCCAGACAGGGACAGGCA 755

Qy 61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTCGACTGAGTAGAACTCGAGGACAAGAG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTCGACTGAGTAGAACTCGAGGACAAGAG 815

Qy 121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCGTCCTGGAGGCCTGGAGGCGAGGGGCCA 180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCGTCCTGGAGGCCTGGAGGCGAGGGGCCA 875

Qy 181 GGCCTCCACATTCGTGGGGCGTCCCTGAATGGCAGCCTGAATGCAGCGGTAGGCCCTTAATAA 240
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 876 GGCCTCCACATTCGTGGGGCGTCCCTGAATGGCAGCCTGAATGCAGCGGTAGGCCCTTAATAA 935

Qy 241 ACACCTGTTGGAT 253
        |||||||||||||
Db 936 ACACCTGTTGGAT 948

RESULT 13
ABX96030
ID ABX96030 standard; cDNA; 960 BP.
XX
AC ABX96030;
XX
DT 13-MAY-2003 (first entry)
XX
DE Human secreted/transmembrane protein cDNA, #5.
XX
KW Human; gene; ss; PRO; secreted; transmembrane; pharmaceutical;
KW diagnostic; biosensor; bioreactor; therapeutic; hyperplasia;
KW endometriosis; cancer; tumour; ischaemia; coronary arterial disease;
KW polycystic kidney disease; renal failure; inflammatory response; asthma;
KW rheumatoid arthritis; psoriasis; multiple sclerosis; gene therapy;
KW cytostatic; gynecological; cardiant; nephrotropic; hepatotropic;
KW antiinflammatory.
XX
OS Homo sapiens.
XX
PN US2002160374-A1.
XX
PD 31-OCT-2002.
XX
PF 12-JUL-2001; 2001US-00905291.
XX

PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 25-NOV-1997; 97US-0066840P.
PR 12-DEC-1997; 97US-0069425P.
PR 04-JUN-1998; 98US-0088026P.
PR 10-SEP-1998; 98US-0099803P.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98US-0100262P.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98WO-US019437.
PR 13-OCT-1998; 98US-0104080P.
PR 20-NOV-1998; 98US-0109304P.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113296P.
PR 07-JUL-1999; 99US-0143048P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 02-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX
DR WPI; 2003-492258/46.
DR P-PSDB; AB047365.
XX
PT Novel secreted and transmembrane polypeptides and polynucleotides
PT encoding them useful for treating abnormal bleeding involved in
PT gynecological diseases, skin diseases and neurodegenerative diseases.
XX
PS Claim 3; Fig 8; 478pp; English.
XX
CC The invention relates to an isolated PRO polypeptide. PRO317 is useful in
CC diagnosing or treating abnormal bleeding involved in gynecological
CC diseases e.g. to avoid or lessen the need for hysterectomy. PRO317 may
CC also be useful as an agent that affects angiogenesis and PRO317 is useful
CC in anti-tumour indications or in treating coronary ischaemic conditions.
CC PRO211 and PRO217 polypeptides are useful for treating disorders
CC associated with the preservation and maintenance of gastrointestinal
CC mucosa and the repair of acute and chronic mucosal lesions, skin diseases
CC associated with abnormal keratinocyte differentiation (e.g. psoriasis).

```
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059119P.
PR   17-SEP-1997;   97US-0059121P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   18-SEP-1997;   97US-0059266P.
PR   15-OCT-1997;   97US-0062125P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   21-OCT-1997;   97US-0063486P.
PR   24-OCT-1997;   97US-0062814P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0055186P.
PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0065693P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0065364P.
PR   24-NOV-1997;   97US-0066453P.
PR   24-NOV-1997;   97US-0066466P.
PR   24-NOV-1997;   97US-0066511P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   01-DEC-1998;   98WO-US025108.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.

PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.
PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.
PR   18-SEP-2000;   2000US-00665350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,  Botstein D,  Desnoyers L,  Eaton DL,  Ferrara N;
PI   Filvaroff E,  Fong S,  Gao W,  Gerber H,  Gerritsen ME,  Goddard A;
PI   Godowski PJ,  Grimaldi JC,  Gurney AL,  Hillan KJ,  Kljavin IJ;
PI   Mather JP,  Pan J,  Paoni NF,  Roy MA,  Stewart TA,  Tumas D;
PI   Williams PM,  Wood WI;
XX
DR   WPI; 2003-288105/28.
DR   P-PSDB; ABU64502.
XX
PT   New secreted and transmembrane PRO polypeptides (e.g. PRO533 or PRO245)
PT   and genes encoding them, useful for detecting or treating e.g.
PT   hyperplasia, endometriosis, cancers, ischemia, coronary arterial disease
PT   or inflammations.
XX
PS   Claim 2; Fig 8; 477pp; English.
XX
CC   The invention discloses isolated PRO secreted/transmembrane polypeptides
CC   and the nucleic acid encoding them. The polypeptides can be used to raise
CC   antibodies that specifically bind to the PRO polypeptide, for linking a
CC   bioactive molecule to a cell expressing a PRO protein and for modulating
CC   at least one biological activity of a cell. The PRO polypeptides or
CC   polynucleotides are also useful as pharmaceuticals, diagnostics,
CC   biosensors or bioreactors, for detecting or treating e.g. hyperplasia,
CC   endometriosis, cancers (e.g. those involving solid tumours), ischaemia,
CC   coronary arterial disease, polycystic kidney disease, chronic or acute
CC   renal failure, or inflammatory responses (e.g. asthma, rheumatoid
CC   arthritis, psoriasis or multiple sclerosis) in mammals. The PRO genes may
CC   also be used in gene therapy, particularly for replacing a defective
CC   gene. The sequences presented in ABX96017-ABX96378 are the genes
CC   encoding, the primers amplifying and the probes detecting the PRO
CC   polynucleotides of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             100.0%;  Score 253;  DB 7;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 1.1e-61;
Matches  253;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACAGGCA 60
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       696 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACAGGCA 755

Qy        61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACAAGAG 120
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACAAGAG 815

Qy       121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGACGATGGGGGCCA 180
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGACGATGGGGGCCA 875

Qy       181 GGCCTCACATTCGTGGGGCTCCCTGAATGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 935

Qy       241 ACACCTGTTGGAT 253
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Db       936 ACACCTGTTGGAT 948

RESULT 14
ACA05351
ID   ACA05351 standard; cDNA; 960 BP.
XX
AC   ,ACA05351;
```

XX
DT   29-MAY-2003   (first entry)
XX
DE   cDNA encoding human secreted protein PRO232.
XX
KW   Human; gene therapy; mucosal lesion; ulcer; enterocolitis; skin disease;
KW   psoriasis; cancer; lung cancer; colon cancer; nerve cell disease;
KW   Alzheimer's disease; Parkinson's disease; Usher syndrome; angiogenesis;
KW   atrophia areata; inflammatory disease; asthma; rheumatoid arthritis;
KW   ischaemia; ss; gene.
XX
OS   Homo sapiens.
XX
PN   US2003023054-A1.
XX
PD   30-JAN-2003.
XX
PF   16-JUL-2001; 2001US-00906742.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
PR   17-SEP-1997; 97US-0059121P.
PR   17-SEP-1997; 97US-0059122P.
PR   17-SEP-1997; 97US-0059184P.
PR   18-SEP-1997; 97US-0059263P.
PR   18-SEP-1997; 97US-0059266P.
PR   15-OCT-1997; 97US-0062125P.
PR   17-OCT-1997; 97US-0062285P.
PR   17-OCT-1997; 97US-0062287P.
PR   21-OCT-1997; 97US-0063486P.
PR   24-OCT-1997; 97US-0062814P.
PR   24-OCT-1997; 97US-0062816P.
PR   24-OCT-1997; 97US-0063045P.
PR   24-OCT-1997; 97US-0063120P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063128P.
PR   27-OCT-1997; 97US-0063327P.
PR   27-OCT-1997; 97US-0063329P.
PR   28-OCT-1997; 97US-0063541P.
PR   28-OCT-1997; 97US-0063542P.
PR   28-OCT-1997; 97US-0063544P.
PR   28-OCT-1997; 97US-0063549P.
PR   28-OCT-1997; 97US-0063550P.
PR   28-OCT-1997; 97US-0063564P.
PR   29-OCT-1997; 97US-0063435P.
PR   29-OCT-1997; 97US-0063704P.
PR   29-OCT-1997; 97US-0063732P.
PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064248P.
PR   07-NOV-1997; 97US-0064809P.
PR   12-NOV-1997; 97US-0065186P.
PR   17-NOV-1997; 97US-0065846P.
PR   18-NOV-1997; 97US-0065693P.
PR   21-NOV-1997; 97US-0066120P.
PR   21-NOV-1997; 97US-0066364P.
PR   24-NOV-1997; 97US-0066453P.
PR   24-NOV-1997; 97US-0066466P.
PR   24-NOV-1997; 97US-0066511P.
PR   24-NOV-1997; 97US-0066770P.
PR   24-NOV-1997; 97US-0066772P.
PR   25-NOV-1997; 97US-0066840P.
PR   12-DEC-1997; 97US-0069425P.
PR   04-JUN-1998; 98US-0088026P.
PR   10-SEP-1998; 98US-0099803P.
PR   10-SEP-1998; 98WO-US018824.

PR   14-SEP-1998; 98US-0100262P.
PR   14-SEP-1998; 98WO-US019177.
PR   16-SEP-1998; 98WO-US019330.
PR   17-SEP-1998; 98US-0100858P.
PR   17-SEP-1998; 98WO-US019437.
PR   13-OCT-1998; 98US-0104080P.
PR   20-NOV-1998; 98US-0109304P.
PR   01-DEC-1998; 98WO-US025108.
PR   22-DEC-1998; 98US-0113296P.
PR   07-JUL-1999; 99US-0143048P.
PR   26-JUL-1999; 99US-0145698P.
PR   28-JUL-1999; 99US-0146222P.
PR   08-SEP-1999; 99US-0020594.
PR   13-SEP-1999; 99WO-US020944.
PR   15-SEP-1999; 99WO-US021090.
PR   15-SEP-1999; 99WO-US021547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
PR   30-NOV-1999; 99WO-US028313.
PR   01-DEC-1999; 99WO-US028301.
PR   02-DEC-1999; 99WO-US028564.
PR   02-DEC-1999; 99WO-US028565.
PR   16-DEC-1999; 99WO-US030095.
PR   20-DEC-1999; 99WO-US030911.
PR   20-DEC-1999; 99WO-US030999.
PR   05-JAN-2000; 2000WO-US000219.
PR   11-FEB-2000; 2000WO-US003565.
PR   22-FEB-2000; 2000WO-US004414.
PR   24-FEB-2000; 2000WO-US005004.
PR   02-MAR-2000; 2000WO-US005841.
PR   20-MAR-2000; 2000WO-US007377.
PR   30-MAR-2000; 2000WO-US008439.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   28-JUL-2000; 2000WO-US020710.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00665350.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-331485/31.
DR   P-PSDB; ABU67348.
XX
PT   Sixty one isolated nucleic acids encoding a PRO polypeptide, e.g. PRO245
PT   or PRO1868, useful in chromosome and gene mapping, in generating
PT   antisense RNA and DNA, and in treating cancer and Alzheimer's disease.
XX
PS   Example 4; Fig 8; 481pp; English.
XX
CC   The invention relates to sixty one nucleic acids encoding PRO
CC   polypeptides (secreted and transmembrane). The polynucleotide is useful
CC   in molecular biology, including uses as hybridisation probes, in
CC   chromosome and gene mapping, in generating antisense RNA and DNA, and in
CC   gene therapy. The polynucleotide may also be used in preparing PRO
CC   polypeptides by recombinant techniques, and in generating either
CC   transgenic animals or knock-out animals which, in turn, are useful in the
CC   development and screening of therapeutically useful reagents. The PRO
CC   polypeptide or the antibody is used in preparing a medicament for
CC   treating a condition responsive to the polypeptide or antibody, such as
CC   mucosal lesions e.g. ulcers and enterocolitis, skin disease e.g.
CC   psoriasis, cancer e.g. lung cancer and colon cancer, nerve cell disease
CC   e.g. Alzheimer's disease and Parkinson's disease, Usher syndrome,
CC   atrophia areata, angiogenesis, inflammatory disease e.g asthma and
CC   rheumatoid arthritis, ischaemia, and in various diagnostic assays. The
CC   present sequence represents an cDNA which encodes a PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

```
Query Match         100.0%;  Score 253;  DB 7;  Length 960;
Best Local Similarity   100.0%;  Pred. No. 1.1e-61;
Matches 253;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ATCTATGACTTGAGCGAGTCTGGTCCGTCCCCGCACCCAGCAGGGACAGGCA 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     696 ATCTATGACTTGAGCGAGTCTGGTCCGTCCCCGCACCCAGCAGGGACAGGCA 755

Qy      61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAACTGGAGGACAAGAG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAGTGAGGACACAAGAG 815

Qy     121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 875

Qy     181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCCTAGGCCCTTAATAA 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||
Db     876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCCTAGGCCCTTAATAA 935

Qy     241 ACACCTGTTCGGAT 253
           ||||||||||||||
Db     936 ACACCTGTTCGGAT 948
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RESULT 15
ACD20018
ID   ACD20018 standard; cDNA; 960 BP.
XX
AC   ACD20018;
XX
DT   25-AUG-2003 (first entry)
XX
DE   Human secreted / transmembrane polypeptide PRO232 cDNA.
XX
KW   Human; ss; gene; gene therapy; tumour; tissue typing; obesity; diabetes;
KW   hypoinsulinaemia; hyperinsulinaemia; vascular permeability;
KW   cardiac insufficiency disorder; immune response; regeneration; cartilage;
KW   auditory hair cell; hearing loss; bone disorder; sports injury;
KW   arthritis.
XX
OS   Homo sapiens.
XX
PN   US2003036060-A1.
XX
PD   20-FEB-2003.
XX
PF   12-JUL-2001; 2001US-00904859.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
PR   17-SEP-1997; 97US-0059121P.
PR   17-SEP-1997; 97US-0059122P.
PR   17-SEP-1997; 97US-0059184P.
PR   18-SEP-1997; 97US-0059263P.
PR   18-SEP-1997; 97US-0059266P.
PR   15-OCT-1997; 97US-0062125P.
PR   17-OCT-1997; 97US-0062285P.
PR   17-OCT-1997; 97US-0062287P.
PR   21-OCT-1997; 97US-0063486P.
PR   24-OCT-1997; 97US-0062814P.
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PR   03-NOV-1997; 97US-0064248P.
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PR   14-SEP-1998; 98WO-US019177.
PR   16-SEP-1998; 98WO-US019330.
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PR   08-SEP-1999; 99WO-US020594.
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PR   15-SEP-1999; 99WO-US021547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
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PR   16-DEC-1999; 99WO-US030095.
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PR   05-JAN-2000; 2000WO-US000219.
PR   11-FEB-2000; 2000WO-US003565.
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PR   02-MAR-2000; 2000WO-US005841.
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PR   22-MAY-2000; 2000WO-US014042.
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PR   28-JUL-2000; 2000WO-US020710.
PR   24-AUG-2000; 2000WO-US023328.
PR   28-SEP-2000; 2000US-00665350.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI   Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
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Mon Sep 20 09:11:59 2004

us-09-079-874-10.rng

Job time : 166.389 secs

PI   Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI   Williams PM, Wood WI;
XX
DR   WPI; 2003-417923/39.
DR   P-PSDB; ABO14868.
XX
PT   Novel secreted and transmembrane polypeptide for modulating biological
PT   activity of cell expressing the polypeptide, identifying agonists or
PT   antagonists of polypeptide, and as molecular weight markers.
XX
PS   Claim 2; Fig 8; 469pp; English.
XX
CC   The invention relates to an isolated, secreted and transmembrane
CC   polypeptide, termed PRO polypeptide. The polypeptide is useful for
CC   identifying agonists or antagonists of the polypeptide, for preparing
CC   variants of the polypeptide, as molecular weight markers for protein
CC   electrophoresis purpose and the nucleic acid is useful for recombinantly
CC   expressing those markers. The polypeptide is also useful as therapeutic
CC   agent. PRO is useful in assays to identify other proteins or molecules
CC   involved in binding interaction. The nucleic acid is useful as
CC   hybridisation probes, in chromosome and gene mapping, in generation of
CC   antisense RNA and DNA, in the preparation of PRO polypeptide, for
CC   generating transgenic animals or knockout animals which in turn are
CC   useful in the development and screening of therapeutically useful
CC   reagents, to construct hybridisation probes for mapping the gene which
CC   encodes the PRO and for the genetic analysis of individuals with genetic
CC   disorders, in gene therapy, for chromosome identification, as chromosome
CC   marker, and for generating probes for polymerase chain reaction (PCR),
CC   Northern analysis, Southern analysis and Western analysis. PRO antibody
CC   is useful in diagnostic assays for PRO, e.g. detecting its expression in
CC   specific cells, tissues or serum and for affinity purification of PRO
CC   from recombinant cell culture or natural sources. The polypeptide or its
CC   antibody is useful for the preparation of medicament for treating
CC   conditions which is responsive to the PRO polypeptide or anti-PRO
CC   antibody e.g. tumour. The polypeptide and the nucleic acid is useful for
CC   tissue typing. The polypeptide is useful for treating obesity, diabetes
CC   or hypo- or hyper-insulinaemia and cardiac insufficiency disorders, for
CC   inhibiting tumour growth, enhances vascular permeability and immune
CC   response, for inducing regeneration of auditory hair cells and for
CC   treating hearing loss in mammals and for treating bone and/or cartilage
CC   disorders such as sports injuries and arthritis. The present sequence
CC   represents cDNA encoding a human secreted and transmembrane PRO
CC   polypeptide
XX
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Qy        241 ACACCTGTTGGAT 253
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OM nucleic - nucleic search, using sw model

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                    GenCore version 5.1.6
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Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Pred. No. is the number of results predicted by chance to have a
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SUMMARIES

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2	253	100.0	960	4	US-09-905-125A-17	Sequence 17, Appl
3	253	100.0	960	4	US-09-902-775A-17	Sequence 17, Appl
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5	228.8	90.4	998	3	US-09-251-835-1	Sequence 1, Appli
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10	34	13.4	29629	4	US-09-729-995-3	Sequence 3, Appli
11	34	13.4	29629	4	US-10-135-689-3	Sequence 3, Appli
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15	31.2	12.3	240	4	US-09-833-381-1279	Sequence 1279, Ap
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c 18	29.8	11.8	209	4	US-09-621-976-10955	Sequence 10955, A
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36	28	11.1	1004	4	US-08-733-622C-21	Sequence 21, Appl
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ALIGNMENTS

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; Sequence 17, Application US/09907794A
; Patent No. 6635458
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
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; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-907-794A-17

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RESULT 2
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; Sequence 17, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
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; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
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; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
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; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30911
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; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 1999-12-20
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-905-125A-17

Query Match   100.0%;   Score 253;   DB 4;   Length 960;
Best Local Similarity 100.0%;   Pred. No. 4e-67;
Matches 253;   Conservative 0;   Mismatches 0;   Indels 0;   Gaps 0;

Qy   1 ATCTATGACTTGAGCAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCA 60
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; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
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;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/902,775A
;   CURRENT FILING DATE: 2001-07-10
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-902-775A-17

  Query Match             100.0%;  Score 253;  DB 4;  Length 960;
  Best Local Similarity   100.0%;  Pred. No. 4e-67;
  Matches 253;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

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Db    696 ATCTATGACTTGAGCCAGGTCCGTCGGTCCGTGTCCCCGCACCCAGCAGGGGACAGGCCA 755

Qy     61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACAAGAG 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACAAGAG 815

Qy    121 TCGACTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGAAGGGGCCA 180
          |||||||||||||||||||||||||||||||||||||||||||||||||||
Db    816 TCGACTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGAAGGGGCCA 875

Qy    181 GGCCTCACATTCGTCGGGGCTCCCTGAATGGCAGCTGAGCACACGTAGGCCCTTAATAA 240
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Db    876 GGCCTCACATTCGTCGGGGCTCCCTGAATGGCAGCTGAGCACACGTAGGCCCTTAATAA 935

Qy    241 ACACCTGTTGGAT 253
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Db    936 ACACCTGTTGGAT 948


RESULT 4
US-09-203-939-1
; Sequence 1, Application US/09203939
; Patent No. 6258939
; GENERAL INFORMATION:
;   APPLICANT: Reiter, Robert E.
;   APPLICANT: Witte, Owen N.
;   TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
;   FILE REFERENCE: 30435.54US1i
;   CURRENT APPLICATION NUMBER: US/09/203,939
;   CURRENT FILING DATE: 2000-12-02
;   PRIOR APPLICATION NUMBER: 08/814,279
;   PRIOR FILING DATE: 1997-03-10
;   PRIOR APPLICATION NUMBER: 60/071,141
;   PRIOR FILING DATE: 1998-01-12
;   PRIOR APPLICATION NUMBER: 60/074,675
;   PRIOR FILING DATE: 1998-02-13
;   PRIOR APPLICATION NUMBER: 09/038,261
;   PRIOR FILING DATE: 1998-03-10
;   NUMBER OF SEQ ID NOS: 16
;   SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 998
;   TYPE: DNA
;   ORGANISM: HUMAN PSCA (hPSCA)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (543)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (580)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (584)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (604)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
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; ORGANISM: HUMAN PSCA (hPSCA)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (543)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (580)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (584)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (604)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (608)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (615)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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; NAME/KEY: misc_feature
; LOCATION: (640)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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; LOCATION: (646)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (697)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (926)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; US-09-251-835-1

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Query Match        90.4%;   Score 228.8;  DB 3;  Length 998;
Best Local Similarity  96.4%;  Pred. No. 8e-60;  Indels 1;  Gaps 1;
Matches 244;  Conservative 0;  Mismatches 8;

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Db  728  ATTTATGAATTGAGCCAGTTTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA  787

Qy   61  CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGAACTGGAGGACAAGAG  120
          ||||||||||||||||||||||||||||||||||||||||   |||||||||||||||
Db  788  ATCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAGAACTGGAGGACAAGAG  847

Qy  121  TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGACGGAAGGGGCCA  180
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Db  848  TTGACGTGAGTTCCTGGGAGTTTCCAGAGATGGGCCTGAGCCAGCACCAGCAGGACACAGCA  907

Qy  181  GGCCTCACATTCGTGGGGGCTCCCTGAATGGCAGCCTGAGCACGCGTAGGCCCTTAATAA  240
          |||||||||||| ||||| ||||  |||||||||||||||||||||||||||||||||||
Db  908  GGCCTCACATTGTGGGGNTCCC-GAATGGCAGCCTGAGCACGCGTAGGCCCTTAATAA  966

Qy  241  ACACCTGTTGGAT  253
          |||||||||||||
Db  967  ACACCTGTTGGAT  979
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RESULT 6
US-09-318-503-1
; Sequence 1, Application US/09318503A
; Patent No. 6261791
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54USI3
; CURRENT APPLICATION NUMBER: US/09/318,503A
; CURRENT FILING DATE: 1999-05-25

Left column:

; LOCATION: (608)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (615)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (636)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (640)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (646)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (697)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (926)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; US-09-203-939-1

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Query Match        90.4%;   Score 228.8;  DB 3;  Length 998;
Best Local Similarity  96.4%;  Pred. No. 8e-60;  Indels 1;  Gaps 1;
Matches 244;  Conservative 0;  Mismatches 8;

Qy    1  ATCTATGACTTGAGCCAGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA  60
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Db  728  ATTTATGAATTGAGCCAGTTTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA  787

Qy   61  CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGAACTGGAGGACAAGAG  120
          ||||||||||||||||||||||||||||||||||||||   |||||||||||||||
Db  788  ATCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAGAACTGGAGGACAAGAG  847

Qy  121  TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGACGGAAGGGGCCA  180
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Db  848  TTGACGTGAGTTCCTGGGAGTTTCCAGAGATGGGCCTGAGCCAGCACCAGCAGGACACAGCA  907

Qy  181  GGCCTCACATTCGTGGGGGCTCCCTGAATGGCAGCCTGAGCACGCGTAGGCCCTTAATAA  240
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Db  908  GGCCTCACATTGTGGGGNTCCC-GAATGGCAGCCTGAGCACGCGTAGGCCCTTAATAA  966

Qy  241  ACACCTGTTGGAT  253
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Db  967  ACACCTGTTGGAT  979
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RESULT 5
US-09-251-835-1
; Sequence 1, Application US/09251835A
; Patent No. 6261789
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54USI2
; CURRENT APPLICATION NUMBER: US/09/251,835A
; CURRENT FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
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; SEQ ID NO 1
; LENGTH: 998
; TYPE: DNA

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;       EARLIER APPLICATION NUMBER: 08/814,279
;       EARLIER FILING DATE: 1997-03-10
;       EARLIER APPLICATION NUMBER: 60/071,141
;       EARLIER FILING DATE: 1998-01-12
;       EARLIER APPLICATION NUMBER: 60/074,675
;       EARLIER FILING DATE: 1998-02-13
;       EARLIER APPLICATION NUMBER: 09/038,261
;       EARLIER FILING DATE: 1998-03-10
;       EARLIER APPLICATION NUMBER: 09/203,939
;       EARLIER FILING DATE: 1998-12-02
;       EARLIER APPLICATION NUMBER: 09/251,835
;       EARLIER FILING DATE: 1999-02-17
;       NUMBER OF SEQ ID NOS: 18
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; SEQ ID NO 1
;       LENGTH: 998
;       TYPE: DNA
;       ORGANISM: HUMAN PSCA (hPSCA)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (543)
;       OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (580)
;       OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (584)
;       OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (604)
;       OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
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;       NAME/KEY: misc_feature
;       LOCATION: (615)
;       OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (636)
;       OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (640)
;       OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (646)
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;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (697)
;       OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (926)
;       OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)

US-09-318-503-1

Query Match        90.4%;   Score 228.8;   DB 3;   Length 998;
Best Local Similarity  96.4%;   Pred. No. 8e-60;
Matches 244;  Conservative  0;  Mismatches  8;  Indels  1;  Gaps  1;

Qy      1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 60
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Db    728 ATTTATGAATTGAGCCAGGTTTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 787

Qy     61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGACTGAGTGACTGGAGGACAAGAG 120
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Db    788 ATCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGACTGAGTGACTGGAGGACAAGAG 847
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy    121 TCGACGTGAGTTCCTGGGAGTTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGGGGCCA 180
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Db    848 TTGACGTGAGTTCCTGGGAGTTTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 907

Qy    181 GGGCCTCACATTCGTGGGGCTCCCTGAATGCGACACGCGTAGGCCCTTAATAA 240
          ||||||||||||||||||            ||||||||||||||||||||||
Db    908 GGCCTCACATTTGTGGGGNTCCC-GAATGGCAGCCTGAGCACACGCGTAGGCCCTTAATAA 966

Qy    241 ACACCTGTTGGAT 253
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Db    967 ACACCTGTTGGAT 979
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RESULT 7
US-09-038-261A-1
;       Sequence 1, Application US/09038261A
;       Patent No. 6267960
;       GENERAL INFORMATION:
;       APPLICANT: Reiter, Robert E.
;       APPLICANT: Witte, Owen N.
;       TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
;       FILE REFERENCE: 30435.54USU1
;       CURRENT APPLICATION NUMBER: US/09/038,261A
;       CURRENT FILING DATE: 1998-03-10
;       PRIOR APPLICATION NUMBER: 08/814,279
;       PRIOR FILING DATE: 1997-03-10
;       PRIOR APPLICATION NUMBER: 60/071,141
;       PRIOR FILING DATE: 1998-01-12
;       PRIOR APPLICATION NUMBER: 60/074,675
;       PRIOR FILING DATE: 1998-02-13
;       NUMBER OF SEQ ID NOS: 15
;       SOFTWARE: PatentIn Ver. 2.0
;
; SEQ ID NO 1
;       LENGTH: 998
;       TYPE: DNA
;       ORGANISM: HUMAN PSCA (hPSCA)
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;       NAME/KEY: misc_feature
;       LOCATION: (543)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (580)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (584)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (604)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (608)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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;       NAME/KEY: misc_feature
;       LOCATION: (615)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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;       NAME/KEY: misc_feature
;       LOCATION: (636)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (640)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (646)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (697)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;       FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: (926)
;       OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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US-09-038-261A-1

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Query Match         90.4%;  Score 228.8;  DB 3;  Length 998;
Best Local Similarity   96.4%;  Pred. No. 8e-60;
Matches  244;  Conservative   0;  Mismatches   8;  Indels   1;  Gaps   1;

Qy    1 ATCTATGACTTGAGCCAGGTCTGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 60
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Db  728 ATTTATGAATTGAGCCAGGTTTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 787

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGACTGAGGAGGACAAGAG 120
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Db  788 ATCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGACTGAGGAGGACAAGAG 847

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
        | ||||||||||||||||||| ||||||||||||||||||||||||||||||||||||
Db  848 TTGACGTGAGTTCCTGGGAGTTTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 907

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCGTAGGCCCTTAATAA 240
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Db  908 GGCCTCACATTTGTGGGGNTCCC-GAATGGCACAGCAGCGTAGGCCCTTAATAA 966

Qy  241 ACACCTGTTGGAT 253
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Db  967 ACACCTGTTGGAT 979
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RESULT 8
US-09-564-329A-1
; Sequence 1, Application US/09564329A
; Patent No. 6541212
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/564,329A
; CURRENT FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 09/251,835
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/308,503
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
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; SEQ ID NO 1
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; TYPE: DNA
; ORGANISM: HUMAN PSCA (hPSCA)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (543)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (580)

; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (584)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (604)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
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; NAME/KEY: misc_feature
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; NAME/KEY: misc_feature
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; NAME/KEY: misc_feature
; LOCATION: (640)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (646)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (697)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (926)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
US-09-564-329A-1

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Query Match         90.4%;  Score 228.8;  DB 4;  Length 998;
Best Local Similarity   96.4%;  Pred. No. 8e-60;
Matches  244;  Conservative   0;  Mismatches   8;  Indels   1;  Gaps   1;

Qy    1 ATCTATGACTTGAGCCAGGTCTGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 60
        || ||||||||||||| ||||||| |||||||||||||||||||||||||||||||||
Db  728 ATTTATGAATTGAGCCAGGTTTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 787

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGACTGAGGAGGACAAGAG 120
        |||||||||||||||||||||||||||||||| |||||||| |||||||||||||||
Db  788 ATCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGACTGAGGAGGACAAGAG 847

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
        | ||||||||||||||||||| ||||||||||||||||||||||||||||||||||||
Db  848 TTGACGTGAGTTCCTGGGAGTTTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 907

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCGTAGGCCCTTAATAA 240
        |||||||||||| ||||||| |||| ||||||||||||| |||||||||||
Db  908 GGCCTCACATTTGTGGGGNTCCC-GAATGGCACAGCAGCGTAGGCCCTTAATAA 966

Qy  241 ACACCTGTTGGAT 253
        |||||||||||||
Db  967 ACACCTGTTGGAT 979
```

RESULT 9
US-08-232-463-14/C
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/935,313
FILING DATE:
APPLICATION NUMBER: EP 91 114 300.6
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/114 IMMU
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)836-9300
TELEFAX: (703)683-4109
TELEX: 899149
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 7218 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: pTZgpt-Pls
US-08-232-463-14

Query Match   14.1%; Score 35.6; DB 1; Length 7218;
Best Local Similarity 8.2%; Pred. No. 0.25; Gaps   0;
Matches   14; Conservative 96; Mismatches   60; Indels   0;

Qy   46 AGCAGGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGA 105
              :: ::::::: ::: ::
Db   1210 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1151

Qy   106 ACTCGAGGACAAGAGTCGACGTGACGTGAGTTCTCGGGAGTCTCCGGAGATGGGCCTGGAGCC 165
              ::::: ::::: :::::: :::::: ::::: ::::: ::::: :::::
Db   1150 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1091

Qy   166 TGGAGGAAGGGGCCAGGCCTCACATTCGTCGGGCTCCCTGAATCGCAGCC 215
              :::::::::::: :::: ::: :: ::::: || ||||||
Db   1090 RRRRRRRRRRRRRRRRRRATCGCAAGCTCCCCTGACCTGCAGCC 1041

RESULT 10
US-09-729-995-3
; Sequence 3, Application US/09729995
; Patent No. 6426206
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL000904
; CURRENT APPLICATION NUMBER: US/09/729,995
; CURRENT FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 29629
; TYPE: DNA
; ORGANISM: Human
US-09-729-995-3

Query Match   13.4%; Score 34; DB 4; Length 29629;
Best Local Similarity 48.5%; Pred. No. 1.2; Gaps   0;
Matches   94; Conservative   0; Mismatches 100; Indels   0;

Qy   13 AGCCAGGTCTGTCCGTCCGTGGTCCCCCGCACCCAGCAGGGGACAGGCACTCAGGAGGGCC 72

Db   2708 AGCCAGCAGGCAGGAGAGTGACTGACTGCCTTCGTTCCTTGTTCCTCGTTACCGGCAGGATACTGAGGCCTAGAGGGCT 2767
              |||||| ||||| |||| |||||||||| |||||||||||||||| ||||| | ||||| | |||| |||| ||||||

Qy   73 CAGTAAAGGCTGAGATGAAGTGGACTGAGTAGA 132
              |||||| ||||||||||||| |||||||| ||
Db   2768 GGCATGCGGCAGAACCGATGTGAATTCATTCAGGTCATAGGGACAGACTTGAGTTTGGGT 2827

Qy   133 CCTGGGAGTCTCCAGAGATGGGCC 192
              |||||||||| ||||| |||||
Db   2828 GTTGGCAATCCCGGTAGAGGGAACAGCCAGGCAAAGGCATGGAGGTGGGACCCACAGCG 2887

Qy   193 GTGGGGCTCCCTGA 206
              |||||||||| ||
Db   2888 CTGTGGCTACCTTA 2901

RESULT 11
US-10-135-689-3
; Sequence 3, Application US/10135689
; Patent No. 6670162
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL000904DIV
; CURRENT APPLICATION NUMBER: US/10/135,689
; CURRENT FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 60/247,031
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 09/729,995
; PRIOR FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 29629
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-135-689-3

Query Match   13.4%; Score 34; DB 4; Length 29629;
Best Local Similarity 48.5%; Pred. No. 1.2;
Matches   94; Conservative   0; Mismatches 100; Indels   0; Gaps   0;

Qy   13 AGCCAGGTCTGTCCGTCCGTGGTCCCCCGCACCCAGCAGGGGACAGGCACTCAGGAGGGCC 72
              |||||| ||||||||||||||||||| |||||||||||
Db   2708 AGCCAGCAGGCAGGAGAGTGACTGACTGCCTTCGTTCCTTGTTCCTCGTTACCGGCAGGATACTGAGGCCTAGAGGGCT 2767

Qy   73 CAGTAAAGGCTGAGATGAAGTGGACTGAGTAGA 132
              |||||| ||||||||||||| |||||||| ||
Db   2768 GGCATGCGGCAGAACCGATGTGAATTCATTCAGGTCATAGGGACAGACTTGAGTTTGGGT 2827

Qy   133 CCTGGGAGTCTCCAGAGATGGGCC 192
              |||||||||| ||||| |||||
Db   2828 GTTGGCAATCCCGGTAGAGGGAACAGCCAGGCAAAGGCATGGAGGTGGGACCCACAGCG 2887

Qy   193 GTGGGGCTCCCTGA 206
              |||||||||| ||
Db   2888 CTGTGGCTACCTTA 2901

RESULT 12
US-09-068-506-1/c
; Sequence 1, Application US/09068506A
; Patent No. 6569618
; GENERAL INFORMATION:
; APPLICANT: YASUE, Hirofumi
; APPLICANT: YOSHIMURA, Kunamoto
; TITLE OF INVENTION: DIAGNOSIS OF DISEASES ASSOCIATED WITH CORONARY
; TITLE OF INVENTION: TWITCHING
; FILE REFERENCE: 0032-245P
; CURRENT APPLICATION NUMBER: US/09/068,506A
; CURRENT FILING DATE: 1998-07-10

; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.0
;
; SEQ ID NO 1
; LENGTH: 9208
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: nnnnnnnnn = Intervening sequences of introns
US-09-068-506-1

Query Match   13.4%;   Score 33.8; DB 4; Length 9208;
Best Local Similarity 48.0%;   Pred. No. 0.95;
Matches 110; Conservative   0; Mismatches 117; Indels   2; Gaps   1;

Qy   23 GGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGGAGGGCCCAGTAAAGGC 82
          |||||||||||||||||||| |||||||||| ||||||| ||| |||| |||||
Db   6886 GGGCAGCCGGGGGTCCCGCACCCAGCCGGGGGAGGGCCACCTGGGGATAGTGCACAGGG 6827

Qy   83 TGAGATGA--AGTGGACTGAGTAGAACTGGAGACAAGAGTCGAGCTGCAGTGAGTTCCTGGGAG 140
          |||||||| |||||||||||||| || |||| ||||||| ||||||| ||| |||||
Db   6826 AGCTCTGAGGACACAGGGCCCAGCAGGACTGCAGTCGCTGGGCTGAGTTTGTCGTTTTTGGTG 6767

Qy   141 TCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGGCCAGGCCTCACATTCGTGGGGCT 200
          ||||||||||| ||||||||||| |||||||| |||||||||||||||||||||||||
Db   6766 ACTGTTAGAGAGCCTGCNNNNNNNNNGGGGGTGGGGGCATGGGGCTGGTGTGTCCC 6707

Qy   201 CCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCCTTAATAAACACCTGTT 249
          |||| |||| ||||| ||| |||||||||||||||||||||||||
Db   6706 TGTTGCTTCCCAGGCTGCCCCTCACCAGGGCTGCCCTTCTCCAGCTGCT 6658

RESULT 13
US-09-621-976-17202
; Sequence 17202, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 17202
; LENGTH: 364
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-621-976-17202

Query Match   12.6%;   Score 31.8; DB 4; Length 364;
Best Local Similarity 15.4%;   Pred. No. 1.5;
Matches   27; Conservative 78; Mismatches 70; Indels   0; Gaps   0;

Qy   23 GGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGGAGGGCCCAGTAAAGGC 82
          : :::::: :::: ::: :: : :: :::::: :: :::: : ::: : :::
Db   2 RRYSGSMKGRARCCGCCKGGAGYSGMCKSSRSYGRRSSCCCGSMGWSGCCSCSKRSWSRCRC 61

Qy   83 TGAGATGAAGTGGACTGAGTAGAACTGGAGACAAGAGTCGAGCTGCAGTGAGTTCCTGGGAGTC 142
          :: ::: :: :::: :::: ::: :: ::: :: :: ::::::::
Db   62 MKSMWSWMYMRSMKYKRSTCASCKYKGGKNACMTCWSTGAMYRYMASYGWCYSYMARYY 121

Qy   143 TCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGGCCAGGCCTCACATTCGTGGG 197
          : ::::::: :::: :::: ::: ::: : :: ::: : :::|
Db   122 TCYSKYRMWKYCYRKYRSRGMCCMWCAGSGMCYSRSAGSRYSKKGSRGRWYWKKG 176

RESULT 14
US-09-325-932A-204
; Sequence 204, Application US/09325932A
; Patent No. 6451604
; GENERAL INFORMATION:

; APPLICANT: Flinn, Barry
; APPLICANT: Lasham, Annette
; TITLE OF INVENTION: Compositions affecting programmed cell
; TITLE OF INVENTION: death and their use in the modification of forestry plant develo
; FILE REFERENCE: 1022
; CURRENT APPLICATION NUMBER: US/09/325,932A
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 206
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 204
; LENGTH: 755
; TYPE: DNA
; ORGANISM: Pinus radiata
US-09-325-932A-204

Query Match   12.5%;   Score 31.6; DB 4; Length 755;
Best Local Similarity 55.5%;   Pred. No. 2.1;
Matches   61; Conservative   0; Mismatches 49; Indels   0; Gaps   0;

Qy   66 GAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGACAAGAGTCGAC 125
          |||||| |||||||||| |||| ||| ||||| ||||| || |||||||
Db   35 GGGAGTGCAGCCAAGGATGTGGCAGATTCCATTGATTGGAGGTTAGGCCTGGAGGAATG 94

Qy   126 GTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGG 175
          |||||||| |||||||||||||||||||||||||||||||||||||||||
Db   95 CTGGTTATGTGGCAGATTCATTGATTGGGAGGTTAGGCCTGGAGGAATG 144

RESULT 15
US-09-833-381-1279
; Sequence 1279, Application US/09833381
; Patent No. 6672186
; GENERAL INFORMATION:
; APPLICANT: Robison, Keith E.
; TITLE OF INVENTION: No. 6672186e1 Nucleic Acid and Protein Homologs
; FILE REFERENCE: 5800-119
; CURRENT APPLICATION NUMBER: US/09/833,381
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 09/516,448
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 2050
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1279
; LENGTH: 240
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(240)
; OTHER INFORMATION: n = A,T,C or G
US-09-833-381-1279

Query Match   12.3%;   Score 31.2; DB 4; Length 240;
Best Local Similarity 55.9%;   Pred. No. 2;
Matches   57; Conservative   0; Mismatches 45; Indels   0; Gaps   0;

Qy   152 GGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGTCCCTGAATGGC 211
          |||| |||||| ||||||||||||| |||||| |||||||||||
Db   21 GCGGCNGGACCACCTGGAGAATGTCATCAAGCAGCACCATTCAACAGGCCTCTGCCAAGCC 80

Qy   212 AGCCTGAGCACAGCAGGCCTAGGCCCTTAATAAACACCTGTTGGAT 253
          ||||||| |: ::| |||| ||| |||||:|: ||
Db   81 TGAGGAGGCAGAGGCCGGCCCNTCACAGACTCCTCTCTGTT 122

Search completed: September 18, 2004, 19:23:43
Job time : 33.5556 secs

us-09-079-874-10.rnpb

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                    GenCore version 5.1.6
            Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:          September 18, 2004, 06:17:58 ; Search time 189.611 Seconds
                                               (without alignments)
                                    6734.858 Million cell updates/sec

Title:           US-09-079-874-10
Perfect score:   253
Sequence:        1 ATCTATGACTTGAGCCAGGT........TTAATAAACACCTGTTGGAT 253

Scoring table:   IDENTITY_NUC
                 Gapop 10.0 , Gapext 1.0

Searched:        3327077 seqs, 2523723180 residues

Total number of hits satisfying chosen parameters:      6654154

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       Published_Applications_NA:*
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          2: /cgn2_6/ptcdata/2/pubpna/PCT_NEW_PUB.seq:*
          3: /cgn2_6/ptcdata/2/pubpna/US06_NEW_PUB.seq:*
          4: /cgn2_6/ptcdata/2/pubpna/US06_PUBCOMB.seq:*
          5: /cgn2_6/ptcdata/2/pubpna/US07_NEW_PUB.seq:*
          6: /cgn2_6/ptcdata/2/pubpna/PCTUS_PUBCOMB.seq:*
          7: /cgn2_6/ptcdata/2/pubpna/US08_NEW_PUB.seq:*
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          9: /cgn2_6/ptcdata/2/pubpna/US09A_PUBCOMB.seq:*
         10: /cgn2_6/ptcdata/2/pubpna/US09B_PUBCOMB.seq:*
         11: /cgn2_6/ptcdata/2/pubpna/US09C_PUBCOMB.seq:*
         12: /cgn2_6/ptcdata/2/pubpna/US09_NEW_PUB.seq:*
         13: /cgn2_6/ptcdata/2/pubpna/US09_NEW_PUB.seq2:*
         14: /cgn2_6/ptcdata/2/pubpna/US10A_PUBCOMB.seq:*
         15: /cgn2_6/ptcdata/2/pubpna/US10B_PUBCOMB.seq:*
         16: /cgn2_6/ptcdata/2/pubpna/US10C_PUBCOMB.seq:*
         17: /cgn2_6/ptcdata/2/pubpna/US10_NEW_PUB.seq:*
         18: /cgn2_6/ptcdata/2/pubpna/US60_NEW_PUB.seq:*
         19: /cgn2_6/ptcdata/2/pubpna/US60_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	253	100.0	253	11	US-09-080-140-10	Sequence 10, Appl
2	253	100.0	960	9	US-09-909-320-17	Sequence 17, Appl
3	253	100.0	960	9	US-09-909-088B-17	Sequence 17, Appl
4	253	100.0	960	9	US-09-905-291A-17	Sequence 17, Appl
5	253	100.0	960	9	US-09-902-853-17	Sequence 17, Appl
6	253	100.0	960	9	US-09-907-824-17	Sequence 17, Appl
7	253	100.0	960	9	US-09-907-841-17	Sequence 17, Appl
8	253	100.0	960	10	US-09-904-011-17	Sequence 17, Appl
9	253	100.0	960	10	US-09-906-742-17	Sequence 17, Appl
10	253	100.0	960	10	US-09-906-838-17	Sequence 17, Appl
11	253	100.0	960	10	US-09-907-613-17	Sequence 17, Appl
12	253	100.0	960	10	US-09-907-942-17	Sequence 17, Appl
13	253	100.0	960	10	US-09-904-859-17	Sequence 17, Appl
14	253	100.0	960	10	US-09-909-204-17	Sequence 17, Appl
15	253	100.0	960	10	US-09-904-820-17	Sequence 17, Appl
16	253	100.0	960	10	US-09-904-786-17	Sequence 17, Appl
17	253	100.0	960	10	US-09-906-646-17	Sequence 17, Appl
18	253	100.0	960	10	US-09-906-700-17	Sequence 17, Appl
19	253	100.0	960	10	US-09-903-786-17	Sequence 17, Appl
20	253	100.0	960	10	US-09-902-903-17	Sequence 17, Appl
21	253	100.0	960	10	US-09-903-749A-17	Sequence 17, Appl
22	253	100.0	960	10	US-09-904-119-17	Sequence 17, Appl
23	253	100.0	960	10	US-09-904-955-17	Sequence 17, Appl
24	253	100.0	960	10	US-09-902-736-17	Sequence 17, Appl
25	253	100.0	960	10	US-09-907-794-17	Sequence 17, Appl
26	253	100.0	960	10	US-09-903-943-17	Sequence 17, Appl
27	253	100.0	960	10	US-09-904-462-17	Sequence 17, Appl
28	253	100.0	960	10	US-09-907-925-17	Sequence 17, Appl
29	253	100.0	960	10	US-09-902-692-17	Sequence 17, Appl
30	253	100.0	960	10	US-09-903-520-17	Sequence 17, Appl
31	253	100.0	960	10	US-09-905-056-17	Sequence 17, Appl
32	253	100.0	960	10	US-09-905-064-17	Sequence 17, Appl
33	253	100.0	960	10	US-09-904-553-17	Sequence 17, Appl
34	253	100.0	960	10	US-09-905-381-17	Sequence 17, Appl
35	253	100.0	960	10	US-09-905-088-17	Sequence 17, Appl
36	253	100.0	960	10	US-09-907-575-17	Sequence 17, Appl
37	253	100.0	960	10	US-09-905-075-17	Sequence 17, Appl
38	253	100.0	960	10	US-09-902-759-17	Sequence 17, Appl
39	253	100.0	960	10	US-09-902-634-17	Sequence 17, Appl
40	253	100.0	960	10	US-09-902-713-17	Sequence 17, Appl
41	253	100.0	960	10	US-09-907-979-17	Sequence 17, Appl
42	253	100.0	960	10	US-09-902-615-17	Sequence 17, Appl
43	253	100.0	960	10	US-09-903-925-17	Sequence 17, Appl
44	253	100.0	960	10	US-09-906-760A-17	Sequence 17, Appl
45	253	100.0	960	10	US-09-903-823-17	Sequence 17, Appl

ALIGNMENTS

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RESULT 1
US-09-080-140-10
; Sequence 10, Application US/09080140
; Publication No. US20040018553A1
; GENERAL INFORMATION:
;   APPLICANT: BILLING-MEDEL, PATRICIA
;   APPLICANT: COHEN, MAURICE
;   APPLICANT: COLPITTS, TRACEY L.
;   APPLICANT: FRIEDMAN, PAULA N.
;   APPLICANT: GORDON, JULIAN
;   APPLICANT: GRANADOS, EDWARD N.
;   APPLICANT: HODGES, STEVEN C.
;   APPLICANT: KLASS, MICHAEL R.
;   APPLICANT: KRATOCHVIL, JON D.
;   APPLICANT: ROBERTS-RAPP, LISA
;   APPLICANT: RUSSELL, JOHN C.
;   APPLICANT: STROUPE, STEPHEN D.
;   TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
;   TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
;   NUMBER OF SEQUENCES: 31
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Abbott Laboratories
;     STREET: 100 Abbott Park Road
;     CITY: Abbott Park
;     STATE: IL
;     COUNTRY: USA
;     ZIP: 60064-3500
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Diskette
;     COMPUTER: IBM Compatible
;     OPERATING SYSTEM: DOS
;     SOFTWARE: FastSEQ for Windows Version 2.0
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/080,140
;     FILING DATE:
;     CLASSIFICATION:
;   PRIOR APPLICATION DATA:
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APPLICATION NUMBER: 08/856,653
FILING DATE: 15-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6105.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX:
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-080-140-10

Query Match   100.0%;   Score 253; DB 11; Length 253;
Best Local Similarity 100.0%; Pred. No. 3.3e-70;
Matches 253; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy    1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGTGTCCCCGCACCCAGCAGGGACAGGCA 60
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Db    1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGTGTCCCCGCACCCAGCAGGGACAGGCA 60

Qy   61 CTCAGGAGGGCCCAGTAAAGCTGAGATGAAGTGACTGAGTAGAACTGGAGGACAAGAG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTCAGGAGGGCCCAGTAAAGCTGAGATGAAGTGACTGAGTAGAACTGGAGGACAAGAG 120

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
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Db  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240

Qy  241 ACACCTGTTGGAT 253
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Db  241 ACACCTGTTGGAT 253
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RESULT 2
US-09-909-320-17
; Sequence 17, Application US/09909320
; Patent No. US2002013240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,320
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PKIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-320-17

Query Match   100.0%;   Score 253; DB 9; Length 960;
Best Local Similarity 100.0%; Pred. No. 3.7e-70;
Matches 253; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy    1 ATCTATGACTTGAGCCAGGTCTCGTCCCGTGTCCCCGCACCCAGCAGGGACACGGCA 60
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Db  696 ATCTATGACTTGAGCCAGGTCTCGTCCCGTGTCCCCGCACCCAGCAGGGACACGGCA 755

Qy   61 CTCAGGAGGGCCCAGTAAAGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  756 CTCAGGAGGGCCCAGTAAAGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 815

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 875

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 935

Qy  241 ACACCTGTTGGAT 253
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Db  936 ACACCTGTTGGAT 948
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RESULT 3
US-09-909-088B-17

Query Match   100.0%; Score 253; DB 9; Length 960;
Best Local Similarity 100.0%; Pred. No. 3.7e-70;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 ATCTATGACTTGAGCCAGTCTGGTCCGTCCCGCCACCCAGCAGCAGGGGACCAGGCA 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   696 ATCTATGACTTGAGCCAGTCTGGTCCGTGGTCTCCCCGCCACCCAGCAGCAGGGGACCAGGCA 755

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTCGAGTAGAACTGGAGGACCAAGAG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   756 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTCGAGTAGAACTGGAGGACCAAGAG 815

Qy   121 TCGACGTGAGTTCCTGGGAGTCTCCAGACATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCA 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   816 TCGACGTGAGTTCCTGGGAGTCTCCAGACATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCA 875

Qy   181 GGCCTCACATTCGTGGGGTCCCTGAATGCCAGCACAGCGTAGCCCTTAATAA 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   876 GGCCTCACATTCGTGGGGTCCCTGAATGCCAGCGTCAGCACACAGCGTAGCCCTTAATAA 935

Qy   241 ACACCTGTTGGAT 253
           |||||||||||||
Db   936 ACACCTGTTGGAT 948

RESULT 4
US-09-905-291A-17
; Sequence 17, Application US/09905291A
; Patent No. US20020160374A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13

; Sequence 17, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-088B-17

; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-902-853-17

Query Match   100.0%; Score 253; DB 9; Length 960;
Best Local Similarity 100.0%; Pred. No. 3.7e-70;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 ATCTATGACTTGAGCCAGTCTCGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCA   60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   696 ATCTATGACTTGAGCCAGTCTCGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCA 755

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAACTGAGTAGAACTGGAGGACAAGAG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAACTGAGTAGAACTGGAGGACAAGAG 815

Qy   121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCA 180
         |||||||||||||||||||||||||||||||||||||||||||||||||||
Db   816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCA 875

US-09-905-291A-17

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Qy   181 GGCCTCACATTCGTGGGGCTCCCTGAATGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
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Db   876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCCGTAGGCCCTTAATAA 935

Qy   241 ACACCTGTTGGAT 253
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Db   936 ACACCTGTTGGAT 948
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RESULT 6
US-09-907-824-17
; Sequence 17, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-907-824-17

Query Match   100.0%; Score 253; DB 9; Length 960;
Best Local Similarity   100.0%; Pred. No. 3.7e-70;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 ATCTATGACTTGAGCCAGGTCGGTCGGTCGTCCCCGCACCCAGCAGGGGACAGGCA 60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   696 ATCTATGACTTGAGCCAGGTCGGTCGGTCGTCCCCGCACCCAGCAGGGGACAGGCA 755

Qy   61 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGAGGACAAGAG 120
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   756 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGAGGACAAGAG 815

Qy   121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGAGGGGCCA 180
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGAGGGGCCA 875

Qy   181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCGTAGGCCCTTAATAA 240
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCGTAGGCCCTTAATAA 935

Qy   241 ACACCTGTTGGAT 253
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Db   936 ACACCTGTTGGAT 948
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RESULT 7
US-09-907-841-17
; Sequence 17, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERNCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841

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; ,   CURRENT FILING DATE: 2001-11-20
; ,   PRIOR APPLICATION NUMBER: PCT/US00/04414
; ,   PRIOR FILING DATE: 2000-02-22
; ,   PRIOR APPLICATION NUMBER: US 60/143,048
; ,   PRIOR FILING DATE: 1999-07-07
; ,   PRIOR APPLICATION NUMBER: US 60/145,698
; ,   PRIOR FILING DATE: 1999-07-26
; ,   PRIOR APPLICATION NUMBER: US 60/146,222
; ,   PRIOR FILING DATE: 1999-07-28
; ,   PRIOR APPLICATION NUMBER: PCT/US99/20594
; ,   PRIOR FILING DATE: 1999-09-08
; ,   PRIOR APPLICATION NUMBER: PCT/US99/20944
; ,   PRIOR FILING DATE: 1999-09-13
; ,   PRIOR APPLICATION NUMBER: PCT/US99/21090
; ,   PRIOR FILING DATE: 1999-09-15
; ,   PRIOR APPLICATION NUMBER: PCT/US99/21547
; ,   PRIOR FILING DATE: 1999-09-15
; ,   PRIOR APPLICATION NUMBER: PCT/US99/23089
; ,   PRIOR FILING DATE: 1999-10-05
; ,   PRIOR APPLICATION NUMBER: PCT/US99/28214
; ,   PRIOR FILING DATE: 1999-11-29
; ,   Remaining Prior Application data removed - See File Wrapper or PALM.
; ,   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; ,   LENGTH: 960
; ,   TYPE: DNA
; ,   ORGANISM: Homo sapiens
US-09-907-841-17
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Query Match             100.0%;     Score 253;   DB 9;    Length 960;
Best Local Similarity   100.0%;     Pred. No. 3.7e-70;
Matches  253;    Conservative    0;    Mismatches    0;    Indels    0;    Gaps    0;

Qy         1  ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCA       60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       696  ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA     755

Qy        61  CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG      120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       756  CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACACAGAG     815

Qy       121  TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA      180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       816  TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA     875

Qy       181  GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGGCTAGGCCCTTAATAA      240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       876  GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGGCTAGGCCCTTAATAA     935

Qy       241  ACACCTGTTGGAT     253
              |||||||||||||
Db       936  ACACCTGTTGGAT     948
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RESULT 8
US-09-904-011-17
; Sequence 17, Application US/09904011
; Publication No. US2003000530A1
; GENERAL INFORMATION:
; ,   APPLICANT: Genentech, Inc.
; ,   APPLICANT: Ashkenazi, Avi
; ,   APPLICANT: Botstein, David
; ,   APPLICANT: Desnoyers, Luc
; ,   APPLICANT: Eaton, Dan L.
; ,   APPLICANT: Ferrara, Napoleone
; ,   APPLICANT: Filvaroff, Ellen
; ,   APPLICANT: Fong, Sherman
; ,   APPLICANT: Gao, Wei-Qiang
; ,   APPLICANT: Gerber, Hanspeter
; ,   APPLICANT: Gerritsen, Mary E.
; ,   APPLICANT: Goddard, A.
; ,   APPLICANT: Godowski, Paul J.
; ,   APPLICANT: Grimaldi, Christopher J.
```

```
; ,   APPLICANT: Gurney, Austin L.
; ,   APPLICANT: Hillan, Kenneth, J.
; ,   APPLICANT: Kljavin, Ivar J.
; ,   APPLICANT: Mather, Jennie P.
; ,   APPLICANT: Pan, James
; ,   APPLICANT: Paoni, Nicholas F.
; ,   APPLICANT: Roy, Margaret Ann
; ,   APPLICANT: Stewart, Timothy A.
; ,   APPLICANT: Tumas, Daniel
; ,   APPLICANT: Williams, P. Mickey
; ,   APPLICANT: Wood, William, I.
; ,   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; ,   TITLE OF INVENTION: Acids Encoding the Same
; ,   FILE REFERENCE: 10466-14
; ,   CURRENT APPLICATION NUMBER: US/09/904,011
; ,   CURRENT FILING DATE: 2001-07-11
; ,   PRIOR APPLICATION NUMBER: 09/665,350
; ,   PRIOR FILING DATE: 2000-09-18
; ,   PRIOR APPLICATION NUMBER: PCT/US00/04414
; ,   PRIOR FILING DATE: 2000-02-22
; ,   PRIOR APPLICATION NUMBER: US 60/143,048
; ,   PRIOR FILING DATE: 1999-07-07
; ,   PRIOR APPLICATION NUMBER: US 60/145,698
; ,   PRIOR FILING DATE: 1999-07-26
; ,   PRIOR APPLICATION NUMBER: US 60/146,222
; ,   PRIOR FILING DATE: 1999-07-28
; ,   PRIOR APPLICATION NUMBER: PCT/US99/20594
; ,   PRIOR FILING DATE: 1999-09-08
; ,   PRIOR APPLICATION NUMBER: PCT/US99/20944
; ,   PRIOR FILING DATE: 1999-09-13
; ,   PRIOR APPLICATION NUMBER: PCT/US99/21090
; ,   PRIOR FILING DATE: 1999-09-15
; ,   PRIOR APPLICATION NUMBER: PCT/US99/21547
; ,   PRIOR FILING DATE: 1999-09-15
; ,   PRIOR APPLICATION NUMBER: PCT/US99/23089
; ,   PRIOR FILING DATE: 1999-10-05
; ,   PRIOR APPLICATION NUMBER: PCT/US99/28214
; ,   PRIOR FILING DATE: 1999-11-29
; ,   PRIOR APPLICATION NUMBER: PCT/US99/28313
; ,   PRIOR FILING DATE: 1999-11-30
; ,   PRIOR APPLICATION NUMBER: PCT/US99/28564
; ,   PRIOR FILING DATE: 1999-12-02
; ,   PRIOR APPLICATION NUMBER: PCT/US99/28565
; ,   PRIOR FILING DATE: 1999-12-02
; ,   PRIOR APPLICATION NUMBER: PCT/US99/30095
; ,   PRIOR FILING DATE: 1999-12-02
; ,   PRIOR APPLICATION NUMBER: PCT/US99/30911
; ,   PRIOR FILING DATE: 1999-12-16
; ,   PRIOR APPLICATION NUMBER: PCT/US99/30999
; ,   PRIOR FILING DATE: 1999-12-20
; ,   PRIOR APPLICATION NUMBER: PCT/US00/00219
; ,   PRIOR FILING DATE: 2000-01-05
; ,   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; ,   LENGTH: 960
; ,   TYPE: DNA
; ,   ORGANISM: Homo Sapien
US-09-904-011-17
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Query Match             100.0%;     Score 253;   DB 10;   Length 960;
Best Local Similarity   100.0%;     Pred. No. 3.7e-70;
Matches  253;    Conservative    0;    Mismatches    0;    Indels    0;    Gaps    0;

Qy         1  ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA       60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       696  ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA     755

Qy        61  CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACACAGAG      120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       756  CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACACAGAG     815

Qy       121  TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA      180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
LENGTH: 960
TYPE: DNA
ORGANISM: Homo Sapien
US-09-906-742-17

Query Match   100.0%;   Score 253;   DB 10;   Length 960;
Best Local Similarity 100.0%;   Pred. No. 3.7e-70;
Matches 253;   Conservative 0;   Mismatches 0;   Indels 0;   Gaps 0;

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Qy    1 ATCTATGACTTGAGCCAGGTCTCGGTCCGTGGTCCCCGCACCCAGCAGGGACAGGCA   60
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  696 ATCTATGACTTGAGCCAGGTCTCGGTCCGTGGTCCCCGCACCCAGCAGGGACAGGCA  755

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGGACTGAGTAGAACTGGAGGACAAGAG  120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGGACTGAGTAGAACTGGAGGACAAGAG  815

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCA  180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCA  875

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA  240
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA  935

Qy  241 ACACCTGTTGGAT  253
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Db  936 ACACCTGTTGGAT  948
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RESULT 10
US-09-906-838-17
Sequence 17, Application US/09906838
Publication No.US20030027143A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same

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Db  816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCA  875

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA  240
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA  935

Qy  241 ACACCTGTTGGAT  253
        |||||||||||||
Db  936 ACACCTGTTGGAT  948
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RESULT 9
US-09-906-742-17
Sequence 17, Application US/09906742
Publication No. US20030023054A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,742
CURRENT FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565

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;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/906,838
;   CURRENT FILING DATE: 2001-07-16
;   PRIOR APPLICATION NUMBER: 09/665,350
;   PRIOR FILING DATE: 2000-09-18
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-906-838-17

Query Match       100.0%;   Score 253;   DB 10;   Length 960;
Best Local Similarity   100.0%;   Pred. No. 3.7e-70;
Matches  253;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy      1 ATCTATGACTTGAGCCAGGTCTGGTCCCCGCACCCAGCAGGGACAGGCA    60
            ||||||||||||||||||||||||||||||||||||||||||||||||||
Db    696 ATCTATGACTTGAGCCAGGTCTGGTCCCCGCACCCAGCAGGGACAGGGCA   755

Qy     61 CTCAGGAGGAGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGAGGACAAAGAG    120
            ||||||||||||||||||||||||||||||||||||||||||||||||||
Db    756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGAGGACAAAGAG    815

Qy    121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGGAGGCCTGGGAGGAAGGGGCCA    180
            ||||||||||||||||||||||||||||||||||||||||||||||||||
Db    816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGGAGGCCTGGGAGGAAGGGGCCA    875

Qy    181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCGTAGGCCCTTAATAA    240
            ||||||||||||||||||||||||||||||||||||||||||||||||||
Db    876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCGTAGGCCCTTAATAA    935

Qy    241 ACACCTGTTGGAT    253
            |||||||||||||
Db    936 ACACCTGTTGGAT    948
```

Query Match   100.0%; Score 253; DB 10; Length 960;
Best Local Similarity 100.0%; Pred. No. 3.7e-70;
Matches 253; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy    1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  696 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 755

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 815

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 875

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCCTAGCACAGCGTAGGCCCTTAATAA 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCCTAGCACAGCGTAGGCCCTTAATAA 935

Qy  241 ACACCTGTTGGAT 253
          |||||||||||||
Db  936 ACACCTGTTGGAT 948
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RESULT 12
US-09-907-942-17
; Sequence 17, Application US/09907942
; Publication No. US20030027146A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,942
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-942-17

Query Match   100.0%; Score 253; DB 10; Length 960;
Best Local Similarity 100.0%; Pred. No. 3.7e-70;
Matches 253; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy    1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  696 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 755

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  756 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 815

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 875

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCCTAGCACAGCGTAGGCCCTTAATAA 240
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Db  876 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCCTAGCACAGCGTAGGCCCTTAATAA 935

Qy  241 ACACCTGTTGGAT 253
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Db  936 ACACCTGTTGGAT 948
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RESULT 13
US-09-904-859-17
; Sequence 17, Application US/09904859
; Publication No. US20030036060A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.

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Db   816 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCGCCTGAGCGCCTGAGGCCTGGAGGAAGGGGCCA 875
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   181 GGCCTCACATTCGTGGGGCTCCCTGAATGCAGCCTGAGCGACACAGCCTAGGCCCTTAATAA 240
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   876 GGCCTCACATTCGTGGGGCTCCCTGAATGCAGCCTGAGCGACACAGCCTAGGCCCTTAATAA 935

Qy   241 ACACCTGTTGGAT 253
                 |||||||||||||
Db   936 ACACCTGTTGGAT 948
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RESULT 14
US-09-909-204-17

; Sequence 17, Application US/09909204
; Publication No. US20030036061A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tuma, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,204
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28564
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; PRIOR FILING DATE: 1999-12-02

; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tuma, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,859
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
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; PRIOR APPLICATION NUMBER: PCT/US99/20944
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; PRIOR FILING DATE: 1999-10-05
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; PRIOR FILING DATE: 1999-11-29
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; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
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SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-904-859-17

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Matches 253; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
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; PRIOR APPLICATION NUMBER: PCT/US99/21547
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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-904-820-17

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Best Local Similarity 100.0%;   Pred. No. 3.7e-70;
Matches  253;   Conservative  0;   Mismatches  0;   Indels  0;   Gaps  0;

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Db  696 ATCTATGACTTGAGCCAGGTCTCGTCCGTGGTGTCCCCGCACCCAGCCAGGGGACAGGCA 755

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
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Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCCACAGCCTGAGCACAGCGCTAGGCCCTTAATAA 240
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Qy  241 ACACCTGTTGGAT 253
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Db  936 ACACCTGTTGGAT 948
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Search completed: September 18, 2004, 20:20:25
Job time : 190.611 secs

RESULT 15
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; Sequence 17, Application US/09904820
; Publication No. US2003036094A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,820

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                GenCore version 5.1.6
        Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 18, 2004, 05:54:35 ; Search time 1156.94 Seconds
                                      (without alignments)
                             6530.246 Million cell updates/sec

Title:          US-09-079-874-10
Perfect score:  253
Sequence:     1 ATCTATGACTTGAGCCAGGT........TTAATAAACACCTGTTGGAT 253

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched:  2751328 seqs, 1493109276 residues

Total number of hits satisfying chosen parameters:     55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

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           2: em_esthum:*
           3: em_estin:*
           4: em_estmu:*
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          14: gb_est5:*
          15: em_estfun:*
          16: em_estom:*
          17: em_gss_hum:*
          18: em_gss_inv:*
          19: em_gss_pln:*
          20: em_gss_vrt:*
          21: em_gss_fun:*
          22: em_gss_mam:*
          23: em_gss_mus:*
          24: em_gss_pro:*
          25: em_gss_rod:*
          26: em_gss_phg:*
          27: em_gss_vrl:*
          28: gb_gss1:*
          29: gb_gss2:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	253	100.0	293	14	CB050989	CB050989 NISC_gj21
2	253	100.0	303	14	CB050988	CB050988 NISC_gj21
3	253	100.0	314	9	AI391510	AI391510 tg03d07.x
4	253	100.0	343	10	AW134915	AW134915 UI-H-Bl1-

No.		Score	%	Length	Pos	No.		ID	Description
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6	c	253	100.0	253	371	10	BF446339	BF446339	7p35h12.x
7	c	253	100.0	253	373	10	AW338346	AW338346	xw70a09.x
8	c	253	100.0	253	381	12	BM788964	BM788964	K-EST0068
9	c	253	100.0	253	415	9	AI017464	AI017464	ou23c03.x
10	c	253	100.0	253	433	9	AI094278	AI094278	qa72e07.x
11	c	253	100.0	253	476	12	BQ012145	BQ012145	UI-1-BC1p
12	c	253	100.0	253	490	10	AI139599	AI139599	qc57d11.x
13	c	253	100.0	253	503	12	BM975759	BM975759	UI-CF-EN1
14	c	253	100.0	253	510	9	AA525838	AA525838	ni93a06.s
15	c	253	100.0	253	592	12	BM783852	BM783852	K-EST0061
16	c	253	100.0	253	700	13	BU621296	BU621296	UI-H-Fl1-
17	c	253	100.0	253	1024	8	BC023582	BC023582	Homo sapi
18	c	252	99.6	252	267	10	BF446311	BF446311	7p35e09.x
19	c	252	99.6	252	281	9	AI220820	AI220820	qg07b02.x
20	c	251.4	99.4	252	508	10	AW205435	AW205435	UI-H-Bl1-
21	c	249.8	98.7	249.8	360	9	AA543070	AA543070	nf96e07.s
22	c	249.8	98.7	249.8	420	9	AI597844	AI597844	tu53b02.x
23	c	249.8	98.7	249.8	451	9	AI936226	AI936226	wo63e01.x
24	c	249.8	98.7	249.8	599	10	AW973274	AW973274	EST385372
25	c	249.8	98.7	249.8	599	12	BQ019300	BQ019300	UI-H-DT1-
26	c	248.8	98.3	248.8	354	9	AI685668	AI685668	tt89f10.x
27	c	248.2	98.1	248.2	738	12	BM980194	BM980194	UI-CF-EN1
28	c	248.2	98.1	248.2	738	12	BM980828	BM980828	UI-CF-EN1
29	c	248.2	98.1	248.2	743	12	BM980213	BM980213	UI-CF-EN1
30	c	248.2	98.1	248.2	990	11	BC048808	BC048808	Homo.sapi
31	c	246.6	97.5	246.6	336	9	AI696731	AI696731	wc56e05.x
32	c	246.6	97.5	246.6	458	9	AI685741	AI685741	tu37f01.x
33	c	245.4	97.0	245.4	267	9	AI392790	AI392790	tg04f10.x
34	c	244.4	96.6	244.4	271	9	AA662861	AA662861	nt95c02.s
35	c	244	96.4	244	260	12	BM795569	BM795569	K-EST0077
36	c	243.4	96.2	243.4	281	10	BE645422	BE645422	7e70a07.x
37	c	241.6	95.5	241.6	262	9	AI623123	AI623123	tu49h09.x
38	c	241	95.3	241	409	9	AA630584	AA630584	ac11b06.s
39	c	240.6	95.1	240.6	267	10	BE672855	BE672855	7d24h08.x
40	c	240.4	95.0	240.4	503	9	AA446964	AA446964	zw85f03.s
41	c	239.4	94.6	239.4	371	9	AA662078	AA662078	ns58b06.s
42	c	239.4	94.6	239.4	549	14	N32614	N32614	yw95e06.s1
43	c	237	93.7	237	517	12	AI677792	AI677792	wc80d09.x
44	c	236	93.3	236	357	14	H96372	H96372	yw61h10.s1
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ALIGNMENTS

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CB050989
CB050989

LOCUS       CB050989                293 bp    mRNA    linear   EST 17-JAN-2003
DEFINITION  NISC_gj21e04.y1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3289422
            5', mRNA sequence.
ACCESSION   CB050989
VERSION     CB050989.1  GI:27789276
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 293)
  AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
  TITLE     National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
  JOURNAL   Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            cDNA Library Preparation:
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium/LLNL
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC)
            Clone distribution: NCI-CGAP clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            info@image.llnl.gov
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                 /db_xref="taxon:9606"
                 /clone="IMAGE:3289422"
                 /sex="male"
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                 /lab_host="DH10B"
                 /clone_lib="NCI_CGAP_Pr28"
                 /note="Organ: prostate; Vector: pT7T3D-Pac (Pharmacia)
                 with a modified polylinker; Plasmid DNA from the
                 normalized library NCI_CGAP_Pr22 was prepared, and ss
                 circles were made in vitro. Following HAP purification,
                 this DNA was used as tracer in a subtractive hybridization
                 reaction. The driver was PCR-amplified cDNAs from a pool
                 of 5,000 clones made from the same library (cloneIDs
                 985608-986759, 1101192-1101959, and 1217928-1220615).
                 Subtraction by Bento Soares and M. Fatima Bonaldo. "

ORIGIN

Query Match         100.0%;      Score 253;   DB 14;     Length 293;
Best Local Similarity  100.0%;   Pred. No. 3.4e-56;
Matches   253;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps   0;

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Db  217 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA  276

Qy  241 ACACCTGTTGGAT  253
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Db  277 ACACCTGTTGGAT  289

RESULT 2
CB050988/c
LOCUS       CB050988              303 bp    mRNA    linear   EST 17-JAN-2003
DEFINITION  NISC_gj21e04.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3289422
            3', mRNA sequence.
ACCESSION   CB050988
VERSION     CB050988.1  GI:27789275
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  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 303)
AUTHORS     NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE       National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL     Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            cDNA Library Preparation:
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium/LLNL
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC)
            Clone distribution: NCI-CGAP clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            info@image.llnl.gov
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                 /clone="IMAGE:3289422"
                 /sex="male"
                 /dev_stage="adult"
                 /lab_host="DH10B"
                 /clone_lib="NCI_CGAP_Pr28"
                 /note="Organ: prostate; Vector: pT7T3D-Pac (Pharmacia)
                 with a modified polylinker; Plasmid DNA from the
                 normalized library NCI_CGAP_Pr22 was prepared, and ss
                 circles were made in vitro. Following HAP purification,
                 this DNA was used as tracer in a subtractive hybridization
                 reaction. The driver was PCR-amplified cDNAs from a pool
                 of 5,000 clones made from the same library (cloneIDs
                 985608-986759, 1101192-1101959, and 1217928-1220615).
                 Subtraction by Bento Soares and M. Fatima Bonaldo. "

ORIGIN

Query Match         100.0%;      Score 253;   DB 14;     Length 303;
Best Local Similarity  100.0%;   Pred. No. 3.4e-56;
Matches   253;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps   0;

Qy    1 ATCTATGACTTGAGCCAGGTCTGGTCCCCGCACCCAGCAGGGACAGGCA   60
          ||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGACTGAGGACAACAAGAG  120
          ||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCA  180
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Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA  240
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   87 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA   28

Qy  241 ACACCTGTTGGAT  253
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Db   27 ACACCTGTTGGAT   15

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LOCUS       AI391510              314 bp    mRNA    linear   EST 30-MAR-1999
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ACCESSION   AI391510
VERSION     AI391510.1  GI:4217514
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 314)
AUTHORS     NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE       National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL     Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Ash Alizadeh, John Byrd, M.D., Mike Grever,
            M.D., Louis M. Staudt, M.D., Ph.D.
            cDNA Library Preparation: M. Bento Soares, Ph.D.
            cDNA Library Arrayed by: Greg Lennon, Ph.D.
            DNA Sequencing by: Washington University Genome Sequencing Center
            Clone distribution: NCI-CGAP clone distribution information can be
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found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
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                     /note="Vector: pT7T3D-Pac (Pharmacia) with a modified
                     polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
                     was primed with a Not I - oligo(dT) primer [5'
                     TGTTACCAATCTGAAGTGGGACGCGGCCATTGCTTTTTTTTTTTTTTTTTT
                     T 3']; double-stranded cDNA was ligated to Eco RI
                     adaptors (Pharmacia), digested with Not I and cloned into
                     the Not I and Eco RI sites of the modified pT7T3 vector.
                     Library is normalized, and was constructed by Bento
                     Soares and M.Fatima Bonaldo."

ORIGIN

Query Match   100.0%;   Score 253; DB 9; Length 314;
Best Local Similarity 100.0%; Pred. No. 3.5e-56;
Matches 253; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGGTGTCCCCGCACCCAGCAGGGGACAGGCA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   279 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGGTGTCCCCGCACCCAGCAGGGGACAGGCA 220

Qy   61 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGAGGACAAGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   219 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGAGGACAAGAG 160

Qy   121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   159 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 100

Qy   181 GGGCTCACATTCGTGGGGCTCCCTGAATGGCACAGCGTAGGCCCTTAATAA 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   99 GGGCTCACATTCGTGGGGCTCCCTGAATGGCACAGCGTAGGCCCTTAATAA 40

Qy   241 ACACCTGTTGGAT 253
          |||||||||||||
Db   39 ACACCTGTTGGAT 27

RESULT 4
AW134915/c
LOCUS   AW134915   343 bp   mRNA   linear   EST 28-OCT-1999
DEFINITION UI-H-BI1-abr-d-01-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone
            IMAGE:2712625 3', mRNA sequence.
ACCESSION   AW134915
VERSION   AW134915.1   GI:6138461
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 343)
  AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
  TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
  JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            The sequence contained an oligo-dT track that was present in the
            oligonucleotide that was used to prime the synthesis of first
            strand cDNA and therefore this may represent a bonafide poly A
            tail. cDNA Library Preparation: M.B. Soares Lab Clone distribution:
            NCI-CGAP clone distribution information can be found through the

I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html The following repetitive
elements were found in this cDNA sequence: 13-56,
Seq primer: M13 Forward
POLYA=Yes.

FEATURES   Location/Qualifiers
     source   1..343
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:2712625"
                     /lab_host="DH10B (Life Technologies)"
                     /clone_lib="NCI_CGAP_Sub3"
                     /note="Vector: pT7T3D-Pac (Pharmacia) with a modified
                     polylinker; Site_1: Not I; Site_2: Eco RI; The
                     NCI_CGAP_Sub3 library is a subtracted library derived from
                     the NCI_CGAP_Sub1 library, which is a subtracted library
                     derived from BI. BI constitutes a mixture of 21
                     normalized or subtracted NCI_CGAP libraries:
                     NCI_CGAP_Co4, NCI_CGAP_Pr22, NCI_CGAP_Pr28, NCI_CGAP_Co10,
                     NCI_CGAP_Co16, NCI_CGAP_Kid5, NCI_CGAP_Kid12,
                     NCI_CGAP_Kid3, NCI_CGAP_Kid11, NCI_CGAP_Lym2,
                     NCI_CGAP_Br2, NCI_CGAP_Co8, NCI_CGAP_CLL1, NCI_CGAP_Lei2,
                     NCI_CGAP_Brn23, NCI_CGAP_Lu5, NCI_CGAP_Lu24,
                     NCI_CGAP_Lu19, NCI_CGAP_GC4, NCI_CGAP_GC6,
                     NCI_CGAP_Brn25. These 21 libraries were pooled and a
                     single-stranded DNA preparation of the resulting mixture
                     was used as a tracer in a subtractive hybridization with
                     a driver whose composition is detailed below:
                     NCI_CGAP_Kid3 pool 1   LLAM 3334-3337, 3682-3683,
                     3798-3803 (IMAGE CloneIDs 1322376-1323911,
                     1456008-1456775, 1500552-1502855); NCI_CGAP_Kid5 pool 1
                     LLAM 3338-3342, 3722-3725, 3776-3778 (IMAGE CloneIDs
                     1323912-1325831, 1471368-1472903, 1492104-1493255);
                     NCI_CGAP_Lu5 pool 1   LLAM 3577-3582, 3851-3854 (IMAGE
                     CloneIDs 1414920-1417991, 1520904-1522439); NCI_CGAP_GC4
                     pool 1   LLAM 3164-3167, 3716-3720, 3733-3735 (IMAGE
                     CloneIDs 1257096-1258631, 1469064-1470983,
                     1475592-1476743); NCI_CGAP_Pr22 pool 1   LLAM 2457-2459,
                     2758-2759, 3062-3068 (IMAGE CloneIDs 985608-986759,
                     1101192-1101959, 1217928-1220615); NCI_CGAP_Co10 pool 1
                     LLAM 2644-2653, 2871-2872 (IMAGE CloneIDs 1057416-1061255,
                     1144584-1145351). Subtraction was performed as previously
                     described [Bonaldo, Lennon & Soares (1996): Normalization
                     and Subtraction: Two Approaches To Facilitate Gene
                     Discovery. Genome Research 6, 791-806.
                     TAG_TISSUE=lung
                     TAG_LIB=NCI_CGAP_Lu19
                     TAG_SEQ=GACAGC"

ORIGIN

Query Match   100.0%;   Score 253; DB 10; Length 343;
Best Local Similarity 100.0%; Pred. No. 3.6e-56;
Matches 253; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   268 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 209

Qy   61 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGAGGACAAGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   208 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGAGGACAAGAG 149

Qy   121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   148 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCA 89

Qy   181 GGGCTCACATTCGTGGGGCTCCCTGAATGGCACAGCGTAGGCCCTTAATAA 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   88 GGGCTCACATTCGTGGGGCTCCCTGAATGGCACAGCGTAGGCCCTTAATAA 29

Qy   241 ACACCTGTTGGAT 253
          |||||||||||||

RESULT 5

Db   28 ACACCTGTTGGAT 16

AI221540/c
LOCUS   AI221540   345 bp   mRNA   linear   EST 29-NOV-1998
DEFINITION   qg15b06.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA
              clone IMAGE:1759571 3', mRNA sequence.
ACCESSION   AI221540
VERSION   AI221540.1 GI:3803743
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 345)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
              Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
              Email: cgapbs-r@mail.nih.gov
              This clone is available royalty-free through LLNL ; contact the
              IMAGE Consortium (info@image.llnl.gov) for further information.
              Insert Length: 793   Std Error: 0.00
              Seq primer: -40UP from Gibco
              High quality sequence stop: 340.
FEATURES   Location/Qualifiers
     source   1..345
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:1759571"
                     /dev_stage="two placentae: one from 8 weeks and another
                     from 9 weeks post conception"
                     /lab_host="DH10B (ampicillin resistant)"
                     /clone_lib="Soares_placenta_8to9weeks_2NbHP8to9W"
                     /note="Organ: placenta; Vector: pT7T3D (Pharmacia) with a
                     modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st
                     strand cDNA was primed with a Not I - oligo(dT) primer [5'
                     TGTTACCAATCTGAAGTGGGACGGCGGCGCGATTTTTTTTTTTTTTTTTTT 3'],
                     double-stranded cDNA was size selected, ligated to Eco RI
                     adapters (Pharmacia), digested with Not I and cloned into
                     the Not I and Eco RI sites of a modified pT7T3 vector
                     (Pharmacia). Library constructed by Bento Soares and
                     M.Fatima Bonaldo."
ORIGIN

Query Match   100.0%;   Score 253;   DB 9;   Length 345;
Best Local Similarity 100.0%; Pred. No. 3.6e-56;
Matches 253;   Conservative 0;   Mismatches 0;   Indels 0;   Gaps 0;

Qy   1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTCCCCGCACCCAGCAGGGACAGGGACAGGCA 60
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   260 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTCCCCGCACCCAGCAGGGACAGGGACAGGCA 201

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAGGAGGACAAGAG 120
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   200 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAGGAGGACAAGAG 141

Qy   121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGGGGCCA 180
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   140 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGGGGCCA 81

Qy   181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCCTAGGCCCTTAATAA 240
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   80 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCCTAGGCCCTTAATAA 21

Qy   241 ACACCTGTTGGAT 253
             |||||||||||||
Db   20 ACACCTGTTGGAT 8

RESULT 6

Db   BF446339/c
LOCUS   BF446339   371 bp   mRNA   linear   EST 01-DEC-2000
DEFINITION 7p35h12.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3647879 3',
            mRNA sequence.
ACCESSION   BF446339
VERSION   BF446339.1 GI:11511477
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 371)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R.
            Emmert-Buck, M.D., Ph.D.
            cDNA Library Preparation: M. Bento Soares, Ph.D.
            cDNA Library Arrayed by: Greg Lennon, Ph.D.
            DNA Sequencing by: Washington University Genome Sequencing Center
            Clone distribution: NCI-CGAP clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL, send email to:
            info@image.llnl.gov
            Seq primer: -40UP from Gibco.
FEATURES   Location/Qualifiers
     source   1..371
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:3647879"
                     /sex="male"
                     /dev_stage="adult"
                     /lab_host="DH10B"
                     /clone_lib="NCI_CGAP_Pr28"
                     /note="Organ: prostate; Vector: pT7T3D-Pac (Pharmacia)
                     with a modified polylinker; Plasmid DNA from the
                     normalized library NCI_CGAP_Pr22 was prepared, and ss
                     circles were made in vitro. Following HAP purification,
                     this DNA was used as tracer in a subtractive hybridization
                     reaction. The driver was PCR-amplified cDNAs from a pool
                     of 5,000 clones made from the same library (cloneIDs
                     985508-986755, 1101192-1101959, and 1217928-1220615).
                     Subtraction by Bento Soares and M. Fatima Bonaldo. "
ORIGIN

Query Match   100.0%;   Score 253;   DB 10;   Length 371;
Best Local Similarity 100.0%; Pred. No. 3.8e-56;
Matches 253;   Conservative 0;   Mismatches 0;   Indels 0;   Gaps 0;

Qy   1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTCCCCGCACCCAGCAGGGACAGGGACAGGCA 60
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   258 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTCCCCGCACCCAGCAGGGACAGGGACAGGCA 199

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAGGAGGACAAGAG 120
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   198 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAGGAGGACAAGAG 139

Qy   121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGGGGCCA 180
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   138 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGGGGCCA 79

Qy   181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCCTAGGCCCTTAATAA 240
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   78 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCCTAGGCCCTTAATAA 19

Qy   241 ACACCTGTTGGAT 253
             |||||||||||||
Db   18 ACACCTGTTGGAT 6

RESULT 7
AW338346/c
LOCUS   AW338346   xw70a09.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2833336 3',
DEFINITION   373 bp   mRNA   linear   EST 31-JAN-2000
             mRNA sequence.
ACCESSION   AW338346
VERSION   AW338346.1 GI:6834972
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 373)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE   National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
             Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
             Email: cgapbs-r@mail.nih.gov
             Tissue Procurement:
             DNA Sequencing by: Washington University Genome Sequencing Center
             Clone distribution: NCI-CGAP clone distribution information can be
             found through the I.M.A.G.E. Consortium/LLNL at:
             www-bio.llnl.gov/bbrp/image/image.html
             Seq primer: -40UP from Gibco.

FEATURES   Location/Qualifiers
     source   1..373
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:2833336"
                     /tissue_type="adenocarcinoma"
                     /lab_host="DH10B"
                     /clone_lib="NCI_CGAP_Pan1"
                     /note="Organ: pancreas; Vector: pCMV-SPORT6; Site_1: SalI;
                     Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT.
                     Average insert size 1.72 kb. Life Technologies catalog #:
                     11548-013"

ORIGIN

Query Match   100.0%; Score 253; DB 10; Length 373;
Best Local Similarity 100.0%; Pred. No. 3.8e-56;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 ATCTATGACTTGAGCCAGGTCTCGTCCGTGGTGTCCCCGCACCCAGCAGGGGACACAGGCA 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   257 ATCTATGACTTGAGCCAGGTCTCGTCCGTGGTGTCCCCGCACCCAGCAGGGGACACAGGCA 198

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACAAGAG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   197 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACAAGAG 138

Qy   121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAGGGGCCA 180
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   137 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAGGGGCCA 78

Qy   181 GGCCTCACATTCGTCGGGGCTCCCTGAGCCTGAGCACACAGCGTAGGCCCTTAATAA 240
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   77 GGCCTCACATTCGTCGGGGCTCCCTGAGCCTGAGCACACAGCGTAGGCCCTTAATAA 18

Qy   241 ACACCTGTTGGAT 253
           |||||||||||||
Db   17 ACACCTGTTGGAT 5

RESULT 8
BM788964
LOCUS   BM788964   381 bp   mRNA   linear   EST 05-MAR-2002
DEFINITION   K-EST0068259 S19N665307 Homo sapiens cDNA clone S19N665307-2-H07
             5', mRNA sequence.
ACCESSION   BM788964
VERSION   BM788964.1 GI:19137196

KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 381)
AUTHORS   Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
             Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
             Kim,Y.S.
TITLE   21C Frontier Korean EST Project 2001
JOURNAL   Unpublished (2002)
COMMENT   Contact: Kim YS
             Genome Research Center
             Korea Research Institute of Bioscience & Biotechnology
             52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
             Tel: +82-42-860-4470
             Fax: +82-42-860-4409
             Email: yongsung@mail.kribb.re.kr
             Plate: 2 row: H column: 07
             High quality sequence stop: 381.

FEATURES   Location/Qualifiers
     source   1..381
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="S19N665307-2-H07"
                     /sex="M"
                     /lab_host="Top10F'"
                     /clone_lib="S19N665307"
                     /note="Organ: Stomach; Vector: pCNS; Site_1: EcoRI;
                     Site_2: NotI; The poly (A)+ RNA was dephosphorylated with
                     bacterial alkaline phosphatase (BAP) and then decapped
                     with tabacco acid pyrophosphatase (TAP). The decapped
                     intact mRNA was ligated with DNA-RNA linker including EcoR
                     I site by treatment of T4 RNA ligase and the first strand
                     cDNA was synthesized from oligo dT-selected mRNA by
                     priming with dT-tailed vector. The dT-tailed vector was
                     adjusted to have about 60nt. The cDNA vector was
                     circularized with E. coli DNA ligase after digestion of
                     EcoRI which site is also included in vector. An RNA strand
                     converted to a DNA strand by Okayama-Berg method. The
                     obtained cDNA vectors were used for transformation of
                     competent cells E. coli Top10F' by electroporation method.
                     The cDNA libraries constructed by this method are
                     full-length enriched cDNA library."

ORIGIN

Query Match   100.0%; Score 253; DB 12; Length 381;
Best Local Similarity 100.0%; Pred. No. 3.8e-56;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 ATCTATGACTTGAGCCAGGTCTCGTCCGTGGTGTCCCCGCACCCAGCAGGGGACACAGGCA 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   118 ATCTATGACTTGAGCCAGGTCTCGTCCGTGGTGTCCCCGCACCCAGCAGGGGACACAGGCA 177

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACAAGAG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   178 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGGAGGACAAGAG 237

Qy   121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAGGGGCCA 180
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   238 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAGGGGCCA 297

Qy   181 GGCCTCACATTCGTCGGGGCTCCCTGAGCCTGAGCACACAGCGTAGGCCCTTAATAA 240
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   298 GGCCTCACATTCGTCGGGGCTCCCTGAGCCTGAGCACACAGCGTAGGCCCTTAATAA 357

Qy   241 ACACCTGTTGGAT 253
           |||||||||||||
Db   358 ACACCTGTTGGAT 370

RESULT 9

```
AI017464/c
LOCUS       AI017464           415 bp    mRNA    linear   EST 27-AUG-1998
DEFINITION  ou23c03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone
            IMAGE:1627108 3', mRNA sequence.
ACCESSION   AI017464
VERSION     AI017464.1  GI:3231800
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 415)
AUTHORS     NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE       National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL     Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            This clone is available royalty-free through LLNL ; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            Insert Length: 850   Std Error: 0.00
            Seq primer: -40m13 fwd. ET from Amersham
            High quality sequence stop: 364.
FEATURES             Location/Qualifiers
     source          1..415
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:1627108"
                     /lab_host="DH10B"
                     /clone_lib="Soares_NFL_T_GBC_S1"
                     /note="Organ: pooled; Vector: pT7T3D-Pac (Pharmacia) with
                     a modified polylinker; Site_1: Not I; Site_2: Eco RI;
                     Equal amounts of plasmid DNA from three normalized
                     libraries (fetal lung NbHl19W, testis NHT, and B-cell
                     NCI_CGAP_GCB1) were mixed, and ss circles were made in
                     vitro. Following HAP purification, this DNA was used as
                     tracer in a subtractive hybridization reaction. The driver
                     was PCR-amplified cDNAs from pools of 5,000 clones made
                     from the same 3 libraries. The pools consisted of
                     I.M.A.G.E. clones 297480-302087, 682632-687239,
                     726408-728711, and 729096-731399. Subtraction by Bento
                     Soares and M. Fatima Bonaldo.  "

ORIGIN

Query Match       100.0%;   Score 253;   DB 9;   Length 415;
Best Local;Similarity   100.0%;  Pred. No. 4e-56;
Matches 253;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy    1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  258 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 199

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  198 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 139

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  138 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCA 79

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCCTGAGCACAGGCGTAGGCCCTTAATAA 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   78 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCCTGAGCACAGGCGTAGGCCCTTAATAA 19

Qy  241 ACACCTGTTGGAT 253
          |||||||||||||
Db   18 ACACCTGTTGGAT 6


RESULT 10
AI094278/c
LOCUS       AI094278           433 bp    mRNA    linear   EST 18-AUG-1998
```

```
DEFINITION  qa72e07.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone
            IMAGE:1692324 3', mRNA sequence.
ACCESSION   AI094278
VERSION     AI094278.1  GI:3433254
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 433)
AUTHORS     NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE       National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL     Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            This clone is available royalty-free through LLNL ; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            Seq primer: -40m13 fwd. ET from Amersham.
FEATURES             Location/Qualifiers
     source          1..433
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:1692324"
                     /sex="unknown"
                     /dev_stage="19 weeks"
                     /lab_host="DH10B (ampicillin resistant)"
                     /clone_lib="Soares_fetal_heart_NbHH19W"
                     /note="Organ: heart; Vector: pT7T3D (Pharmacia) with a
                     modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
                     strand cDNA was primed with a Not I - oligo(dT) primer [5'
                     TGTTACCAATCTGAAGTGGAGCGGCCGCCATCTTTTTTTTTTTTTTTTTT 3'], 1st
                     double-stranded cDNA was size selected, ligated to Eco RI
                     adapters (Pharmacia), digested with Not I and cloned into
                     the Not I and Eco RI sites of a modified pT7T3 vector
                     (Pharmacia). Library went through one round of
                     normalization to a Cot = 5. Library constructed by
                     M.Fatima Bonaldo. This library was constructed from the
                     same fetus as the fetal lung library, Soares fetal lung
                     NbHl19W."

ORIGIN

Query Match       100.0%;   Score 253;   DB 9;   Length 433;
Best Local Similarity   100.0%;  Pred. No. 4e-56;
Matches 253;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy    1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  257 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCA 198

Qy   61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  197 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 138

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  137 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCA 78

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCCTGAGCACAGGCAGCCCTTAATAA 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   77 GGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGCCTGAGCACAGGCAGCCCTTAATAA 18

Qy  241 ACACCTGTTGGAT 253
          |||||||||||||
Db   17 ACACCTGTTGGAT 5


RESULT 11
BQ012145/c
LOCUS       BQ012145           476 bp    mRNA    linear   EST 26-MAR-2002
DEFINITION  UI-1-BCIp-ath-h-05-0-UI.s1 NCI_CGAP_P13 Homo sapiens cDNA clone
            UI-1-BCIp-ath-h-05-0-UI 3', mRNA sequence.
```

```
Qy       241 ACACCTGTTGGAT 253
             ||||||||||||
Db        29 ACACCTGTTGGAT 17
```

```
RESULT 12
AI139599/c
LOCUS       AI139599              490 bp    mRNA      linear    EST 27-OCT-1998
DEFINITION  qc57d11.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA
            clone IMAGE:1713717 3', mRNA sequence.
ACCESSION   AI139599
VERSION     AI139599.1  GI:3645571
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 490)
AUTHORS     NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE       National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL     Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            This clone is available royalty-free through LLNL ; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            Insert Length: 1016   Std Error: 0.00
            Seq primer: -40m13 fwd. ET from Amersham
            High quality sequence stop: 461.
FEATURES             Location/Qualifiers
     source          1..490
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:1713717"
                     /dev_stage="two placentae: one from 8 weeks and another
                     from 9 weeks post conception"
                     /lab_host="DH10B (ampicillin resistant)"
                     /clone_lib="Soares_placenta_8to9weeks_2NbHP8to9W"
                     /note="Organ: placenta; Vector: pT7T3D (Pharmacia) with a
                     modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st
                     strand cDNA was primed with a Not I - oligo(dT) primer [5'
                     TGTTACCAATCTGAAGTGGGAGACGGCCGGATTTTTTTTTTTTTTTTTT 3'],
                     double-stranded cDNA was size selected, ligated to Eco RI
                     adapters (Pharmacia), digested with Not I and cloned into
                     the Not I and Eco RI sites of a modified pT7T3 vector
                     (Pharmacia). Library constructed by Bento Soares and
                     M.Fatima Bonaldo."
ORIGIN
```

```
Query Match         100.0%;    Score 253;   DB 9;    Length 490;
Best Local Similarity  100.0%;    Pred. No. 4.3e-56;
Matches  253;   Conservative  0;   Mismatches  0;   Indels  0;   Gaps  0;

Qy        1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGGTCCCCGACCCAGCAGGGACAGGCA 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      258 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGGTCCCCGACCCAGCAGGGACAGGCA 199

Qy       61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      198 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 139

Qy      121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCAGCCTGAGGGCCTGGAGGAAGGGGCCA 180
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      138 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCAGCCTGAGGGCCTGGAGGAAGGGGCCA 79

Qy      181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       78 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 19

Qy      241 ACACCTGTTGGAT 253
            |||||||||||||
Db       18 ACACCTGTTGGAT 6
```

```
ACCESSION   BQ012145
VERSION     BQ012145.1  GI:19737046
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 476)
AUTHORS     NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE       National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL     Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Dr. Steven Brown
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Clone distribution information can be obtained
            from Dr. M. Bento Soares, bento-soares@uiowa.edu
            The following repetitive elements were found in this cDNA
            sequence: 14-57, >LINE2 (matched compliment)
            Seq primer: M13 FORWARD
            POLYA=Yes.
FEATURES             Location/Qualifiers
     source          1..476
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-1-BCip-ath-h-05-0-UI"
                     /tissue_type="Placenta"
                     /dev_stage="8-9 weeks"
                     /lab_host="DH10B (Life Technologies)"
                     /clone_lib="NCI_CGAP_Pl3"
                     /note="Organ: Placenta; Vector: pT7T3-Pac (Pharmacia) with
                     a modified polylinker; Site 1: EcoR I; Site_2: Not I;
                     NCI_CGAP_Pl3 is a subtracted cDNA library constructed
                     according to Bonaldo, Lennon and Soares, Genome Research,
                     6:791-806, 1996. First strand cDNA synthesis was primed
                     with an oligo-dT primer containing a Not I site. Double
                     stranded cDNA was ligated to an EcoR I adaptor, digested
                     with Not I, and cloned directionally into pT7T3-Pac
                     vector. The oligonucleotide used to prime the synthesis of
                     first-strand cDNA contains a library tag sequence that is
                     located between the Not I site and the (dT)18 tail. The
                     sequence tags for this library are GA, AGGA. For
                     additional information, contact: Bento Soares,
                     bento-soares@uiowa.edu
                     TAG_TISSUE=placenta human 8 week
                     TAG_LIB=UI-1-BCIp
                     TAG_SEQ=GA"
ORIGIN
```

```
Query Match         100.0%;    Score 253;   DB 12;    Length 476;
Best Local Similarity  100.0%;    Pred. No. 4.2e-56;
Matches  253;   Conservative  0;   Mismatches  0;   Indels  0;   Gaps  0;

Qy        1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGGTCCCCCGCACCCAGCAGGGACAGGCA 60
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      269 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGGTCCCCCGCACCCAGCAGGGACAGGCA 210

Qy       61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      209 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 150

Qy      121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCAGCCTGAGGGCCTGGAGGAAGGGGCCA 180
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      149 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCAGCCTGAGGGCCTGGAGGAAGGGGCCA 90

Qy      181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       89 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 30

Qy      241 ACACCTGTTGGAT 253
            |||||||||||||
Db       29 ACACCTGTTGGAT 17
```

RESULT 13
BM975759/c
```
LOCUS       BM975759                503 bp    mRNA    linear   EST 21-FEB-2003
DEFINITION  UI-CF-EN1-acv-e-05-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
            UI-CF-EN1-acv-e-05-0-UI 3', mRNA sequence.
ACCESSION   BM975759
VERSION     BM975759.1  GI:19593350
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 503)
  AUTHORS   Bonaldo,M.F., Lennon,G. and Soares,M.B.
  TITLE     Normalization and subtraction: two approaches to facilitate gene
            discovery
  JOURNAL   Genome Res. 6 (9), 791-806 (1996)
  MEDLINE   97044477
   PUBMED   8889548
COMMENT     Contact: McCray, PB
            McCray Lab
            University of Iowa
            2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
            Tel: 319 356 4866
            Fax: 319 356 7171
            Email: paul-mccray@iowa.edu
            Tissue Procurement: Dr. M. J. Welsh, University of Iowa
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Researchers may obtain clones from Research
            Genetics (www.resgen.com) or from Open Biosystems
            (www.openbiosystems.com).
            Seq primer: M13 FORWARD
            POLYA=Yes.
FEATURES             Location/Qualifiers
     source          1..503
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-CF-EN1-acv-e-05-0-UI"
                     /tissue_type="Primary Lung Cystic Fibrosis Epithelial
                     Cells"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
                     /clone_lib="UI-CF-EN1"
                     /note="Organ: lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site_1: EcoR I; Site_2: Not I;
                     UI-CF-EN1 is a normalized cDNA library containing the
                     following tissue(s): Primary Lung Cystic Fibrosis
                     Epithelial Cells. The library was constructed according to
                     Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                     1996. First strand cDNA synthesis was primed with an
                     oligo-dT primer containing a Not I site. Double stranded
                     cDNA was ligated to an EcoR I adaptor, digested with Not
                     I, and cloned directionally into pT7T3-Pac vector. The
                     oligonucleotide used to prime the synthesis of
                     first-strand cDNA contains a library tag sequence that is
                     located between the Not I site and the (dT)18 tail. The
                     sequence tag for this library is CTGCTCAGGT.
                     TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
                     6hr_to LPS 24h
                     TAG_LIB=UI-CF-EN1
                     TAG_SEQ=CTGCTCAGGT
ORIGIN
```

Query Match   100.0%; Score 253; DB 12; Length 503;
Best Local Similarity 100.0%; Pred. No. 4.3e-56;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy     1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACAGGCA 60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   275 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGGACAGGCA 216

Qy    61 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAACTGGAGGACCAAGAG 120
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||
Db   215 CTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTGAACTGGAGGACAAGAG 156

Qy   121 TCGACGTGAGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCA 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   155 TCGACGTGAGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCA 96

Qy   181 GGGCTCACATTCGTGGGGTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    95 GGGCTCACATTCGTGGGGTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAA 36

Qy   241 ACACCTGTTGGAT 253
         |||||||||||||
Db    35 ACACCTGTTGGAT 23
```

RESULT 14
AA525838/c
```
LOCUS       AA525838                510 bp    mRNA    linear   EST 05-AUG-1997
DEFINITION  ni93a06.s1 NCI_CGAP_Pr21 Homo sapiens cDNA clone IMAGE:984370 3',
            mRNA sequence.
ACCESSION   AA525838
VERSION     AA525838.1  GI:2267907
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 510)
  AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
            National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
  TITLE     Unpublished (1997)
  JOURNAL
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R.
            Emmert-Buck, M.D., Ph.D.
            cDNA Library Preparation: M. Bento Soares, Ph.D.
            cDNA Library Arrayed by: Greg Lennon, Ph.D.
            DNA Sequencing by: Washington University Genome Sequencing Center
            Clone distribution: NCI-CGAP clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            www-bio.llnl.gov/bbrp/image/image.html
            Insert Length: 1039   Std Error: 0.00
            Seq primer: -40m13 fwd. ET from Amersham
            High quality sequence stop: 369.
FEATURES             Location/Qualifiers
     source          1..510
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:984370"
                     /sex="male"
                     /tissue_type="normal prostate"
                     /lab_host="DH10B"
                     /clone_lib="NCI_CGAP_Pr21"
                     /note="Organ: prostate; Vector: pT7T3D-Pac (Pharmacia)
                     with a modified polylinker; 1st strand cDNA was prepared
                     from normal prostate bulk tissue, and was then primed with
                     a Not I - oligo(dT) primer. Double-stranded cDNA was
                     ligated to Eco RI adaptors (Pharmacia), digested with Not
                     I and cloned into the Not I and Eco RI sites of the
                     modified pT7T3 vector. Library is not normalized. Library
                     was constructed by Bento Soares and M. Fatima Bonaldo. "
ORIGIN
```

Query Match   100.0%; Score 253; DB 9; Length 510;
Best Local Similarity 100.0%; Pred. No. 4.4e-56;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

full-length enriched cDNA library."

ORIGIN

Query Match   100.0%;   Score 253;   DB 12;   Length 592;
Best Local Similarity   100.0%;   Pred. No. 4.7e-56;
Matches 253;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

```
Qy    1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCA 60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  334 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCA 393

Qy   61 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGGCA 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  394 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 453

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  454 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGAAGGGGCCA 513

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGGTAGGCCCTTAATAA 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  514 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGGTAGGCCCTTAATAA 573

Qy  241 ACACCTGTTGGAT 253
          |||||||||||||
Db  574 ACACCTGTTGGAT 586
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Search completed: September 18, 2004, 19:14:31
Job time : 1157.94 secs

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Qy    1 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCA 60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  259 ATCTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGACAGGCA 200

Qy   61 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  199 CTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAG 140

Qy  121 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGAAGGGGCCA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  139 TCGACGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGAAGGGGCCA 80

Qy  181 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCAGCCGTAGGCCCTTAATAA 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   79 GGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCAGCCGTAGGCCCTTAATAA 20

Qy  241 ACACCTGTTGGAT 253
          |||||||||||||
Db   19 ACACCTGTTGGAT 7
```

RESULT 15
BM783852
LOCUS   BM783852   592 bp   mRNA   linear   EST 05-MAR-2002
DEFINITION K-EST0061885 S17N258215 Homo sapiens cDNA clone S17N258215-2-E04
            5', mRNA sequence.
ACCESSION   BM783852
VERSION   BM783852.1   GI:19132084
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 592)
AUTHORS   Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
            Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
            Kim,Y.S.
TITLE   21C Frontier Korean EST Project 2001
JOURNAL   Unpublished (2002)
COMMENT   Contact: Kim YS
            Genome Research Center
            Korea Research Institute of Bioscience & Biotechnology
            52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
            Tel: +82-42-860-4470
            Fax: +82-42-860-4409
            Email: yongsung@mail.kribb.re.kr
            Plate: 2 row: E column: 04
            High quality sequence stop: 592.
FEATURES   Location/Qualifiers
     source   1..592
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="S17N258215-2-E04"
                     /sex="M"
                     /lab_host="Top10F'"
                     /clone_lib="S17N258215"
                     /note="Organ: Stomach; Vector: pCNS; Site_1: EcoRI;
                     Site_2: NotI; The poly (A)+ RNA was dephosphorylated with
                     bacterial alkaline phosphatase (BAP) and then decapped
                     with tabacco acid pyrophosphatase (TAP). The decapped
                     intact mRNA was ligated with DNA-RNA linker including EcoR
                     I site by treatment of T4 RNA ligase and the first strand
                     cDNA was synthesized from oligo dT-selected mRNA by
                     priming with dT-tailed vector. The dT-tailed vector was
                     adjusted to have about 60nt. The cDNA vector was
                     circularized with E. coli DNA ligase after digestion of
                     EcoRI which site is also included in vector. An RNA strand
                     converted to a DNA strand by Okayama-Berg method. The
                     obtained cDNA vectors were used for transformation of
                     competent cells E. coli Top10F' by electroporation method.
                     The cDNA libraries constructed by this method are

Blank sheet

OM nucleic - nucleic search, using sw model

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Run on: September 18, 2004, 04:35:58 ; Search time 4867.26 Seconds
                                (without alignments)
                        8655.682 Million cell updates/sec

Title: US-09-079-874-11
Perfect score: 972
Sequence: 1 GTGACCATGAAGGCTGTGCT.........ACACCTGTTGGATAAGCCCA 972

Scoring table: IDENTITY_NUC
             Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 2671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
               Maximum Match 100%
               Listing first 45 summaries

Database :   GenEmbl:*
  1: gb_ba:*
  2: gb_htg:*
  3: gb_in:*
  4: gb_om:*
  5: gb_ov:*
  6: gb_pat:*
  7: gb_ph:*
  8: gb_pl:*
  9: gb_pr:*
 10: gb_ro:*
 11: gb_sts:*
 12: gb_sy:*
 13: gb_un:*
 14: gb_vi:*
 15: em_ba:*
 16: em_fun:*
 17: em_hum:*
 18: em_in:*
 19: em_mu:*
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 26: em_sts:*
 27: em_sts:*
 28: em_un:*
 29: em_vi:*
 30: em_htg_hum:*
 31: em_htg_inv:*
 32: em_htg_other:*
 33: em_htg_mus:*
 34: em_htg_pln:*
 35: em_htg_rod:*
 36: em_htg_mam:*
 37: em_htg_vrt:*
 38: em_sy:*
 39: em_htgo_hum:*
 40: em_htgo_mus:*
 41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	970.4	99.8	1015	9	BC023582	BC023582 Homo sapi
2	968.4	99.6	979	6	BD076397	BD076397 Human pro
3	953.4	98.1	960	6	AR410610	AR410610 Sequence
4	953.4	98.1	960	6	AX201328	AX201328 Sequence
5	953.4	98.1	960	6	AX697426	AX697426 Sequence
6	953.4	98.1	960	6	BD075381	BD075381 Secretory
7	953.4	98.1	960	6	BD172241	BD172241 Secreted
8	953.4	98.1	960	6	BD172560	BD172560 Secreted
9	953.4	98.1	960	6	BD172879	BD172879 Secreted
10	953.4	98.1	960	6	BD173198	BD173198 Secreted
11	953.4	98.1	960	6	BD175232	BD175232 Secretory
12	953.4	98.1	960	6	AY358912	AY358912 Homo sapi
13	931.4	95.8	946	9	HSA297436	AJ297436 Homo sapi
14	877.6	90.3	990	6	AX014204	AX014204 Sequence
15	877.6	90.3	990	6	BD205072	BD205072 Human nuc
16	877.6	90.3	990	6	AF043498	AF043498 Homo sapi
17	877.6	90.3	998	6	AR162849	AR162849 Sequence
18	877.6	90.3	998	6	AR302232	AR302232 Sequence
19	877.6	90.3	998	6	AX080304	AX080304 Sequence
20	877.6	90.3	998	6	BD193367	BD193367 Prostate
21	873.8	89.9	998	6	BD264314	BD264314 PSCA: pro
22	804	82.7	157839	2	AC015718	AC015718 Homo sapi
23	788	81.1	100079	9	AC108002	AC108002 Homo sapi
24	788	81.1	103247	2	AF176678	AF176678 Homo sapi
25	786.4	80.9	105156	2	AF235094	AF235094 Homo sapi
26	726.8	74.8	758	6	AX014148	AX014148 Sequence
27	726.8	74.8	758	6	BD205056	BD205056 Human nuc
28	451.4	46.4	494	6	AR026974	AR026974 Sequence
29	372	38.3	372	6	AX155553	AX155553 Sequence
30	367.4	37.8	369	6	BD076387	BD076387 Human pro
31	335.2	34.5	372	6	AX155569	AX155569 Sequence
32	333.6	34.3	372	6	AX155567	AX155567 Sequence
33	284	29.2	288	6	AR026990	AR026990 Sequence
34	267.8	27.6	373	6	AX884747	AX884747 Sequence
35	267.8	27.6	373	6	BD024357	BD024357 Sequence
36	266.8	27.4	373	6	BD076969	BD076969 5' EST of
37	262.8	27.0	286	6	AR026988	AR026988 Sequence
38	230	23.7	230	6	AR026991	AR026991 Sequence
39	218.4	22.5	232	6	AR026992	AR026992 Sequence
40	203.8	21.0	864	10	AF319173	AF319173 Mus muscu
41	203.2	20.9	441	6	AR162850	AR162850 Sequence
42	203.2	20.9	441	6	AR302233	AR302233 Sequence
43	203.2	20.9	441	6	AX080306	AX080306 Sequence
44	203.2	20.9	441	6	BD193368	BD193368 Prostate
45	176	18.1	441	6	BD264315	BD264315 PSCA: pro

ALIGNMENTS

RESULT 1
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LOCUS   BC023582   1015 bp   mRNA   linear   PRI 19-DEC-2003
DEFINITION   Homo sapiens prostate stem cell antigen, mRNA (cDNA clone MGC:22972
             IMAGE:4840974), complete cds.
ACCESSION   BC023582
VERSION   BC023582.2 GI:40225653
KEYWORDS   MGC.
SOURCE   Homo sapiens (human)
  ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 1015)
  AUTHORS   Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G.,
             Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D.,

Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,
Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F.,
Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,
Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L.,
Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S.,
Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J.,
Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J.,
McKernan,K.J., Malek,J.A., Gunarante,P.H., Richards,S.,
Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W.,
Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A.,
Fahey,J., Helton,E., Ketteman,M., Madan,A., Rodrigues,S.,
Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y.,
Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D.,
Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M.,
Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smailus,D.E.,
Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.

TITLE   Generation and initial analysis of more than 15,000 full-length
          human and mouse cDNA sequences

JOURNAL   Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

REFERENCE 2 (bases 1 to 1015)

AUTHORS   Strausberg,R.

TITLE   Direct Submission

JOURNAL   Submitted (05-FEB-2002) National Institutes of Health, Mammalian
          Gene Collection (MGC), Cancer Genomics Office, National Cancer
          Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
          USA

REMARK   NIH-MGC Project URL: http://mgc.nci.nih.gov

COMMENT   On Dec 19, 2003 this sequence version replaced gi:23958165.
          Contact: MGC help desk
          Email: cgapbs-r@mail.nih.gov
          Tissue Procurement: ATCC/DCTD/DTP
          cDNA Library Preparation: Rubin Laboratory
          cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
          DNA Sequencing by: National Institutes of Health Intramural
          Sequencing Center (NISC),
          Gaithersburg, Maryland;
          Web site: http://www.nisc.nih.gov/
          Contact: nisc_mgc@nhgri.nih.gov
          Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
          Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
          Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
          Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
          Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
          McDowell,R., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
          Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
          Young,A., Zhang,L.-H. and Green,E.D.

          clone distribution: MGC clone distribution information can be found
          through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
          Series: IRAL Plate: 33 Row: m Column: 19
          This clone was selected for full length sequencing because it
          passed the following selection criteria: matched mRNA gi: 5031994.

FEATURES   Location/Qualifiers
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="MGC:22972 IMAGE:4840974"
                     /tissue_type="Skin; melanotic melanoma, high MDR."
                     /clone_lib="NIH_MGC_49"
                     /lab_host="DH10B-R"
                     /note="Vector: pOTB7"
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                     /db_xref="MIM:602470"
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                     /protein_id="AAH23582.1"
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ORIGIN

Query Match   99.8%; Score 970.4; DB 9; Length 1015;
Best Local Similarity   99.9%; Pred. No. 2.4e-176;
Matches 971; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Db   1 GTGACCATGAAGGCTGTGTTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC 60

Qy   61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG 120
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Db   61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG 120

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Qy   361 GGACCCGGCAGCTATAGGCTTCTGGGGGGCCCCGCTGCAGCCCACTGGTGTGGTGCC 420
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Qy   421 CCAGGCCTCTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGA 480
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Db   421 CCAGGCCTCTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGA 480

Qy   481 GGCACATCCTAACGCAAGTCGAAGTCTGACCATGTATGTCCACCCCTGTCCCCACCCGACCC 540
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Qy   541 TCCCATGGCCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCAGTGACACAGATCCGCC 600
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Qy   601 TGCAGATGGCCCCTCCAACCTCTCGCTGTTTCCATGGCCCAGCATTCTCCACCCT 660
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Qy   661 TAACCCTGCTCAGGACACCCTTCCCTGCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 720
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Db   661 TAACCCTGCTCAGGACACCCTTCCCTGCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 720

Qy   721 CTTGAGCCAGTCTGGTCCGTGGTGTCCCCAGGGGACCAGGCACTCAGGAG 780
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Qy   781 GGCCCAGTAAAGCTGAGGATGAAGTGGACTGGAACTGGAGACAAGAGTCGACGTG 840
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Db   781 GGCCCAGTAAAGCTGAGGATGAAGTGGACTGGAACTGGAGACAAGAGTCGACGTG 840

Qy   841 AGTTCCTGGAGTCTCCAGAGATGGGCCTGGAGGGAGGGGCCAGGCCTCAC 900

RESULT 2
BD076397
LOCUS   BD076397   979 bp   DNA   linear   PAT 27-AUG-2002
DEFINITION   Human protein having transmembrane domain and DNA encoding the
             same.
ACCESSION   BD076397
VERSION   BD076397.1 GI:22622000
KEYWORDS   JP 2001519154-A/11.
SOURCE   Homo sapiens (human)
  ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 979)
  AUTHORS   Kato,S., Kimura,T., Sekine,S. and Kobayashi,M.
  TITLE   Human protein having transmembrane domain and DNA encoding the same
  JOURNAL   Patent: JP 2001519154-A 11 23-OCT-2001;
             SAGAMI CHEMICAL RESEARCH CENTER,PROTEGENE INC
COMMENT   OS   Homo sapiens (human)
             PN   JP 2001519154-A/11
             PD   23-OCT-2001
             PF   05-OCT-1998 JP 2000515001
             PI   SEISHI KATO,TOMOKO KIMURA,SHINGO SEKINE,MIDORI KOBAYASHI PC
             C12N15/09,C07K14/47,C12N15/10,C12N15/00,C12N5/00 CC   Human protein
             having transmembrane domain
             and DNA encoding the
             CC   same
             FH   Key   Location/Qualifiers
             FT   source   1..979
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FEATURES   Location/Qualifiers
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ORIGIN

Query Match   99.6%; Score 968.4; DB 6; Length 979;
Best Local Similarity   99.9%; Pred. No. 5.8e-176;
Matches 969; Conservative   0; Mismatches 0; Indels   0; Gaps   0;

Qy   1 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC 60
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Qy   121 GAGAACTGCACCCAGCCAGTGCTGGGGAGCAGTGCTGACCCGCCGCATCCGCGCAGTTGGCCTC 180
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Qy   181 CTGACCGTCATCAGCAAAGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC 240
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Qy   841 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCAC 900
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Qy   901 ATTCGTGGGGGCTCCCTGAATGGCAGCAGCCTGAGCACAGCGTAGGCACCCTTAATAAACACCTGT 960
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Qy   961 TGGATAAGCCCA 972
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Db   970 TGGATAAGCCAA 972

RESULT 3
AR410610
LOCUS   AR410610
             Sequence 17 from patent US 6635468.   960 bp   DNA   linear   PAT 18-DEC-2003
ACCESSION   AR410610
VERSION   AR410610.1 GI:40162110
KEYWORDS
SOURCE   Unknown.
  ORGANISM   Unknown.
             Unclassified.
REFERENCE   1 (bases 1 to 960)
  AUTHORS   Ashkenazi,A., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
             Filvaroff,E., Fong,S., Gao,W.-Q., Gerber,H., Gerritsen,M.E.,
             Goddard,A., Godowski,P.J., Grimaldi,J.C., Gurney,A.L., Hillan,K.J.,
             Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,
             Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
  TITLE   Secreted and transmembrane polypeptides and nucleic acids encoding
             the same
  JOURNAL   Patent: US 6635468-A 17 21-OCT-2003;
FEATURES   Location/Qualifiers
     source   1..960
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Query Match    98.1%;  Score 953.4;  DB 6;  Length 960;
Best Local Similarity  99.9%;  Pred. No. 4.4e-173;
Matches  954;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;
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ACCESSION   AX201328
VERSION     AX201328.1   GI:15391156
KEYWORDS    .
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Ashkenazi,A.J., Goddard,A., Godowski,P.J., Gurney,A.L.,
            Hillan,K.J., Marsters,S.A., Pan,J., Pitti,R.M., Roy,M.A., Smith,V.,
            Stone,D.M., Watanabe,C.K. and Wood,W.I.
  TITLE     Compositions and methods for the treatment of tumour
  JOURNAL   Patent: WO 0153486-A 7 26-JUL-2001;
            Genentech, Inc. (US)
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Query Match    98.1%;  Score 953.4;  DB 6;  Length 960;
Best Local Similarity  99.9%;  Pred. No. 4.4e-173;
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RESULT 5
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LOCUS   AX697426   960 bp   DNA   linear   PAT 02-APR-2003
DEFINITION Sequence 17 from Patent WO0104311.
ACCESSION   AX697426
VERSION   AX697426.1 GI:29498554
KEYWORDS
SOURCE   Homo sapiens (human)
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            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Ashkenazi,A.J., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
            Filvaroff,E., Fong,S., Gao,W.Q., Gerber,H., Gerritsen,M.E.,
            Goddard,A., Godowski,P.J., Grimaldi,C.J., Gurney,A.L., Hillan,K.J.,
            Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,
            Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
  TITLE   Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: WO 0104311-A 17 18-JAN-2001;
            Genentech Inc. (US)
FEATURES   Location/Qualifiers
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Query Match   98.1%;   Score 953.4; DB 6; Length 960;
Best Local Similarity 99.9%; Pred. No. 4.4e-173;
Matches 954; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy    798  GATGAAGTGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  857
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Qy    858  AGAGATGGGGCCTGGAGGGCCCAGGGCCTCAGGGCCCAGTAAAGGGCCCAGTAAAGGCTGA  917
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DEFINITION Secretory and transmembrane polypeptide and nucleic acid encoding
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ACCESSION   BD075381
VERSION   BD075381.1 GI:22620984
KEYWORDS   JP 2001516580-A/14.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Penica,D., Chen,J. and Yuan,J.
  TITLE   Secretory and transmembrane polypeptide and nucleic acid encoding
            the same
  JOURNAL   Patent: JP 2001516580-A 14 02-OCT-2001;
            GENENTECH INC
COMMENT   OS   Homo sapiens (human)
            PN   JP 2001516580-A/14
            PD   02-OCT-2001
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DEFINITION Secreted and transmembrane polypeptides and nucleic acids encoding
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ACCESSION   BD172241
VERSION   BD172241.1 GI:28413539
KEYWORDS   JP 2002223786-A/14.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
  TITLE   Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: JP 2002223786-A 14 13-AUG-2002;
            GENENTECH INC
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  PN   JP 2002223786-A/14
  PD   13-AUG-2002
  PF   18-DEC-2001 JP 2001385135
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(Listing of priority document numbers and dates, e.g. 60/059122,17-SEP-1997 US ... 60/063870,03-NOV-1997 US)

Query Match   98.1%; Score 953.4; DB 6; Length 960;
Best Local Similarity 99.9%; Pred. No. 4.4e-173;
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WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA,PI
JIAN ZHENG,
  PI  JEAN YUAN
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  encoding the same
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FEATURES            Location/Qualifiers
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ORIGIN

Query Match      98.1%;    Score 953.4;   DB 6;   Length 960;
Best Local Similarity   99.9%;   Pred. No. 4.4e-173;
Matches   954;   Conservative    0; Mismatches   0; Indels   0; Gaps    0;

Qy    18 GCTGCTTGCCCTGTTGATGCAGGCTTGCCCTGCCCTGCCCTGCCCTGCTGCTGTGCTA   77
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Qy    78 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCTGCAGGTGGAGAACTGCACCCAGCT  137
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Db    61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCTGCAGGTGGAGAACTGCACCCAGCT  120

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Qy   438 TCCTCACAGACCTGGCCAGTGGGAGCCTGTCTCCTGGAGCCTTCCTGAGGCACATCCTTAACCGCAA  497
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Db   421 TCCTCACAGACCTGGCCCAGTGGGAGCCCTGTCTCCTGGTTCCTGAGGCACATCCTTAACCGCAA  480

Qy   498 GTCTGACCATGTGTATGTCCCTGACCCCTGTCCCCCACCCCCCATGGCCCTTCTCCA  557
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Db   481 GTCTGACCATGTGTATGTCCCTGACCCCTGTCCCCCCACCCCCCATGGCCCTTCTCCA  540

Qy   558 GGACTCCCACCCGGCAGATCGAGTCTAGTGACACAGATCCGCCTGCGAGATGGCCCTCCA  617
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Qy   678 ACCTCTTCCCCCAGGAGAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT  737
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Db   661 ACCTCTTCCCCCAGGAGAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT  720

Qy   738 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGGCCAGTAAAGGCTGA  797
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Qy   798 GATGAAGTGGACTGAGTAGAACTGGACAAGAGTCGACCTGAGTTCCTGGGAGTCTCC  857
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Db   781 GATGAAGTGGACTGAGTAGAACTGGACGACAGAGTCGACGTGAGTTCCTGGGAGTCTCC  840

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Qy   918 AATGGCAGCCTGAGCACAGCTGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA  972
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DEFINITION      Secreted and transmembrane polypeptides and nucleic acids encoding
                the same.
ACCESSION       BD172560
VERSION         BD172560.1  GI:28413862
KEYWORDS        JP 2002238586-A/14.
SOURCE          Homo sapiens (human)
  ORGANISM      Homo sapiens
                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
REFERENCE       1  (bases 1 to 960)
  AUTHORS       Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
                Yuan,J.
  TITLE         Secreted and transmembrane polypeptides and nucleic acids encoding
                the same
  JOURNAL       Patent: JP 2002238586-A 14 27-AUG-2002;
                GENENTECH INC
COMMENT         OS   Homo sapiens (human)
                PN   JP 2002238586-A/14
                PD   27-AUG-2002
                PF   18-DEC-2001 JP 2001385205
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                WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
                JIAN ZHENG,
                PI   JEAN YUAN
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PC   C12P21/02//C12P21/08,(C12N1/19,C12R1:645),(C12N1/21,C12R1:19),
PC
     (C12N5/10,C12R1:91),(C12P21/02,C12R1:91),(C12P21/02,C12R1:645), PC
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     encoding the same
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Matches  954;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy      18 GCTGCTTGCCCCGTTGATGGCAGGCTTGGCCTGACGTCCCTGCCCCTGCTGTGCTA 77
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Db     121 GGGGGAGCAGTGCTGGACCGCGCATCCGCGCAGTTGGCCTTCCTGACCGTCATCAGCAA 180

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Db     181 AGGCTGCAGCTTGAACTGCGTGATGACTCACAGGACTACTGTGGGCAAGAAGAAACAT 240

Qy     258 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCGGCTGC 317
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Qy     318 CGGCCATCCTTGCGCGTGCTCCCTGCACTCGGCCTCTGGGGACCCGGCCAGCTATA 377
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Qy     438 TCCTCACAGACCTGGCCCAGTGGAGCCTTCCTGAGGCACATCCTAAGCAA 497
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Qy     498 GTCTGACCATGTATGTCTGCACCCCAGATCAGCTTCAGTGACACAGATCCGGCTCCTCCA 557
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Qy     558 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCCTCCA 617
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Qy     678 ACCTCTTCCCCCAGAAGCCTTCCCTGCCACCCCATCCATGACTTGAGCCCAAGCTCTGGT 737
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Qy     918 AATGCAGCCTGAGCACAGCGTAGCCCTTAATAAACACCTGTTGGATAAGCCCA 972
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LOCUS       BD172879              960 bp    DNA     linear     PAT 18-FEB-2003
DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding
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ACCESSION   BD172879
VERSION     BD172879.1  GI:28414185
KEYWORDS    JP 2002238587-A/14.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: JP 2002238587-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT     OS   Homo sapiens (human)
            PN   JP 2002238587-A/14
            PD   27-AUG-2002
            PF   18-DEC-2001 JP 2001385248
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            WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA,  PI
            JIAN ZHENG,
            PI   JEAN YUAN
            PC   C12N15/09,C07K14/47,C07K16/18,C12N1/19,C12N1/21,C12N5/10, PC
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            and transmembrane polypeptides and nucleic CC  acids encoding the
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ORIGIN

Query Match      98.1%;  Score 953.4;  DB 6;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 4.4e-173;
Matches  954;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;

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Db    181  AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT    240

Qy    258  CACGTGCTGTGACACGACTTGTGCAACGAGCCCATGCCCTGCCAGCCGGTGC    317
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Db    241  CACGTGCTGTGACACGACTTGTGCAACGAGCCCATGCCCTGCCAGCCGGTGC    300

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Db    301  CGCCATCTTGCGCTCCCTGCACTCGGCCTGCTCTGGGACCCGGCCAGCTATA    360

Qy    378  GGCTCTGGGGGCGCCCCGCTGCAGCCCACACTGGGTGTGTGCCCCAGGCCTTCGTGTGCCAC   437
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Qy    438  TCCTCACAGACCTGCCCAGTGGGAGCCCGTGCTGTCCTGGTTCCTGGAGGCACATCCTAACGCAA   497
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Qy    558  GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA   617
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Qy    738  CCGTGTGTCCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAGGCTGA   797
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Qy    918  AATGGGCAGCCAGCGTGAGCACAGCGTAGGCCCTAATAAACACCTGTTGGATAAGCCCA    972
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Db    901  AATGGGCAGCCAGCACAGCGTAGGCCCTAATAAACACCTGTTGGATAAGCCAA    955
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LOCUS       BD173198               960 bp    DNA     linear   PAT 18-FEB-2003
DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding
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ACCESSION   BD173198
VERSION     BD173198.1  GI:28414507
KEYWORDS    JP 2002238588-A/14.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,D. and
            Yuan,J.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: JP 2002238588-A 14 27-AUG-2002;
            GENENTECH INC
COMMENT     OS   Homo sapiens (human)
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            PD   27-AUG-2002
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Query Match   98.1%;   Score 953.4; DB 6; Length 960;
Best Local Similarity 99.9%;   Pred. No. 4.4e-173;
Matches 954; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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VERSION   BD175232.1 GI:29120928
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             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
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  TITLE   Secretory and transmembrane polypeptide and nucleic acid encoding
             the same
  JOURNAL   Patent: JP 2002253280-A 14 10-SEP-2002;
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Best Local Similarity 99.9%;   Pred. No. 4.4e-173;
Matches 954; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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LOCUS   BD175232   960 bp   DNA   linear   PAT 18-MAR-2003
DEFINITION Secretory and transmembrane polypeptide and nucleic acid encoding

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           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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REFERENCE   1 (bases 1 to 960)
AUTHORS     Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
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            Goddard,A., Wood,W.I. and Godowski,P.
TITLE       The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
            Effort to Identify Novel Human Secreted and Transmembrane Proteins:
            A Bioinformatics Assessment
JOURNAL     Genome Res. 13 (10), 2265-2270 (2003)
PUBMED      12975309
REFERENCE   2 (bases 1 to 960)
AUTHORS     Clark,H.F.
TITLE       Direct Submission
JOURNAL     Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
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Qy  678 ACCTTCTCCCCCAGGAAGCCTTCCCTGCCACCTATGACTTGAGCCAGGTCGGT  737

Db  661 ACCTTCTCCCCCAGGAAGCCTTCCCTGCCACCTATGACTTGAGCCAGGTCGGT  720
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Qy  738 CCGTGGTGTCCCCCGCACCCAGCAGGGACAGGGGCACTCAGGAGGGCCCAGTAAAGGCTGA  797

Db  721 CCGTGGTGTCCCCCGCACCCAGCAGGGACAGGGGCACTCAGGAGGGCCCAGTAAAGGCTGA  780
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Qy  798 GATGAAGTGGACTGAGTAGAACTGGAGAGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  857

Db  781 GATGAAGTGGACTGAGTAGAACTCGGAGAGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  840
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy  858 AGAGATGGGGGCCTGGAGGGCCTGGAGGAGGGGGCCAGGCCTCACATTGTGGGGCTCCCTG  917

Db  841 AGAGATGGGGGCCTGGAGGGCCTGGAGGAGGGGGCCAGGCCTCACATTGTGGGGCTCCCTG  900
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy  918 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA  972

Db  901 AATGGCACACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA  955
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RESULT 13
HSA297436
LOCUS       HSA297436         946 bp    mRNA    linear   PRI 13-OCT-2000
DEFINITION  Homo sapiens mRNA for prostate stem cell antigen (PSCA gene).
ACCESSION   AJ297436
VERSION     AJ297436.1  GI:9367211
KEYWORDS    prostate stem cell antigen; PSCA gene.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Bahrenberg,G., Brauers,A., Joost,H.G. and Jakse,G.
TITLE       Reduced expression of PSCA, a member of the LY-6 family of cell
            surface antigens, in bladder, esophagus, and stomach tumors
JOURNAL     Biochem. Biophys. Res. Commun. 275 (3), 783-788 (2000)
MEDLINE     20431743
PUBMED      10973799
REFERENCE   2  (bases 1 to 946)
AUTHORS     Bahrenberg,G.
TITLE       Direct Submission
JOURNAL     Submitted (12-JUL-2000) Bahrenberg G., Institut fuer Pharmakologie
            und Toxikologie, RWTH Aachen, Wendlingweg2, Aachen, NRW, 52057,
            GERMANY
FEATURES    Location/Qualifiers
     source  1..946
             /organism="Homo sapiens"
             /mol_type="mRNA"
             /db_xref="taxon:9606"
             /sex="female"
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             /country="Germany"
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             /gene="PSCA"
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Qy 432 CCAGGGCCTTGTGCCACTCCTCACAGAACTGGCCCAGTGGGAGCCTGTCTGGTTCCTG 491
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Db 480 AGGCACATCCTAACGCAAGTCGACCATGTAGTCTGCACCCTGTGACCCTGTCCCC--ACCCTGA 537

Qy 492 AGGCACATCCTAACGCAAGTTGACCATGTATGTTTGCACCCTTTTCCCNAACCCTGA 551
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Db 538 CCCTCCCATGCCCTC-TCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATC 596

Qy 538 CCCTCCCATGCCCTC-TCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATC 596
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Db 552 CCTTCCCATGGCCTTTTCCAGGATTCCACCNGGCAGATCAGTTTTAGTGANACANATC 611

Qy 597 CGCCTGCAGATGGCCCCTCCAACCCTCTCGTGTTCATGGCCCAGCATTCTCCA 656
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Db 612 CGCNTGCAGATGGCCCCTCCCAACCNTTNTGTTGTNTGTTTCCAGCCCAGCATTTTCCA 671

Qy 657 CCCTTAACCCTGTGCTCAGGCACCCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCT 716
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Db 672 CCCTTAACCCTGTGTTCAGGCACTTNTCCCCAGGAGCCTTCCCTGCCCACCCCCATTT 731

Qy 717 ATGACTTGAGCAGTTCTGGTCCGTGGTCCCCGGCAGATCAGCTTAGTGAGTGACTGCACTCA 776
          ||||||||||||||||||||||||| |||||| ||||||||||||||||||||||||
Db 732 ATGAATTGAGCCAGTTTGGTCCGTGGTGTCCCCGGACCAGGGACCAGGGACCAGGCAATCA 791

Qy 777 GGAGGGCCCAGTAAAGGCTGAGATGAAGGCTGAGATGGACTGAGAACTGGAGGACAAGAGTCGA 836
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Db 792 GGAGGGGCCCAGTAAAGGCTGAGAGTGGACTGAGAACTGGAGGACTGAGAACTGGAGGACAAGAGTTGA 851

Qy 837 CGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCTTGGAGGGCCTGGAGGAAGGGGCCAGGCC 896
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Db 852 CGTGAGTTCCTGGGAGTTTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCC 911

Qy 897 TCACATTCGTGGGGCTCCCTGAATGCCAGCCAGCCTAGGCCCTTAATAAACAC 956
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Db 912 TCACATTTGTGGGGNTCCC-GAATGGCAGCACAGCGTAGGCCCTTAATAAACAC 970

Qy 957 CTGTTGGATAAGCCCA 972
          ||||||||||||||||
Db 971 CTGTTGGATAAGCCAA 986

RESULT 14

AX014204

LOCUS   AX014204   990 bp   DNA   linear   PAT 07-SEP-2000
DEFINITION   Sequence 108 from Patent WO9954447.
ACCESSION   AX014204
VERSION   AX014204.1   GI:10040611
KEYWORDS   .
SOURCE   Homo sapiens (human)
  ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Schmitt,A., Specht,T., Dahl,E., Hinzmann,B., Rosenthal,A. and
             Pilarsky,C.
  TITLE   Human nucleic acid sequences of bladder tumour tissue
  JOURNAL   Patent: WO 9954447-A 108 28-OCT-1999;
             SCHMITT ARMIN (DE); SPECHT THOMAS (DE); DAHL EDGAR (DE); HINZMANN
             BERND (DE); ROSENTHAL ANDRE (DE); METAGEN GES FUER GENOMFORSCHUN
             (DE); PILARSKY CHRISTIAN (DE)
FEATURES   Location/Qualifiers
     source   1..990
                     /organism="Homo sapiens"
                     /mol_type="unassigned DNA"
                     /db_xref="taxon:9606"

ORIGIN

Query Match   90.3%;   Score 877.6;   DB 6;   Length 990;
Best Local Similarity   96.0%;   Pred. No. 1.6e-158;
Matches 937;   Conservative 0;   Mismatches 34;   Indels 5;   Gaps 4;

Qy   1 GTGACCATGAAGGCTGTGCTGCTTGCCCTTGCCCTTGTTGATGGCAGGCAGGGTTGGCCCTGCAGCCAGGC 60
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Db   12 GTGACCATGAAGGCTGTGCTGCTTGCCCTTGCCCTTGTTGATGGCAGGCAGGGTTGGCCCTGCAGCCAGGC 71

Qy   61 ACTGCCCTGCTGTCTACTCCTGCAAAGCCCAGGTGAGCAACAGGAGACTGCCTGCCAGGTG 120
          |||||||||||||||||||| |||||||||||||||||||||||||||||||||||
Db   72 ACTGCCTGCTGTGTCTGCTACTCCTGCAAAGCCCAGGTGAGCAACAGGAGACTGCCTGCCAGGTG 131

Qy 121 GAGAACTGCACCCAGCTGCGGGGAGCAGTGGCACCGCGCATCCGCGCGGACTTGGCCTTC 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 132 GAGAACTGCACCCAGCTGCGGGGAGCAGTGGCACCGCGCATCCGCGCGGACTTGGCCTTC 191

Qy 181 CTGACCGTCATCAGCAAAGCTGCAGCTGGATGACTGCTGGATGACTCACAGGACTACTAC 240
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Db 192 CTGACCGTCATCAGCAAAGCTGCAGCTGGATGACTGCTGGATGACTCACAGGACTACTAC 251

Qy 241 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGGCCCAT 300
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Db 252 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGGCCCAT 311

Qy 301 GCCCTGCAGCGCGGCTGCGCCATCCTGCGCGTGCGGCCCTCCCTGCGCGCTCGGCGTCTCTG 360
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Db 312 GCCCTGCAGCGCGGGCTGCGCCATCCTGCGCGTGCGGCCCTCCCTGCGCGCTCGGCGTCTCTG 371

Qy 361 GGACCCGGCCAGCTATAGGCCTCTGGGGGGCCCCGCTGAGCCCACCACTGGGTGTGGTGCC 420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 372 GGACCCGGCCAGCTATAGGCCTCTGGGGGGCCCCGCTGAGCCCACCACTGGGTGTGGTGCC 431

Qy 421 CCAGGCCTCTGTGCCACTCCTCACAG-ACCTGGCCCAGTGGGAGCCTGTCTGGTTCCTG 479
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RESULT 15

BD205072

LOCUS   BD205072   990 bp   DNA   linear   PAT 17-JUL-2003
DEFINITION   Human nucleic acid sequence originating in cystic cancer tissue.
ACCESSION   BD205072
VERSION   BD205072.1   GI:33014842
KEYWORDS   JP 2002512023-A/26.
SOURCE   Homo sapiens (human)
  ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 990)
  AUTHORS   Specht,T., Hinzmann,B., Schmitt,A., Pilarsky,C., Dahl,E. and
             Rosenthal,A.
  TITLE   Human nucleic acid sequence originating in cystic cancer tissue
  JOURNAL   Patent: JP 2002512023-A 26 23-APR-2002;
             METAGEN GESELLSCHAFT FUER GENOM FORSCHUNG MBH
COMMENT   OS   Homo sapiens (human)
             PN   JP 2002512023-A/26
             PD   23-APR-2002
             PF   15-APR-1999 JP 2000544779
             PR   21-APR-1998 DE 198 18 619.3
             PI   THOMAS SPECHT,BERND HINZMANN,ARMIN SCHMITT,CHRISTIAN PILARSKY,
             PI   EDGAR DAHL,
             PI   ANDRE ROSENTHAL
             PC   C12N15/09,A61K38/00,A61K39/395,A61K48/00,A61P13/10,
             PC   A61P35/00,
             PC   C07K14/47,C07K16/18,C12N5/10,C12P21/02,C12P21/08,C12Q1/68, PC
             C12N15/00,
             PC   A61K37/02,C12N5/00
             CC   Human nucleic acid sequence originating in cystic cancer   CC
             tissue
FH   Key   Location/Qualifiers
FT   source   1..990

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ORIGIN

Query Match         90.3%;   Score 877.6;  DB 6;  Length 990;
Best Local Similarity   96.0%;   Pred. No. 1.6e-158;
Matches  937;   Conservative  0;   Mismatches  34;   Indels  5;   Gaps  4;
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Qy      1  GTGACCATGAAGGCTGTGCTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCCAGGC    60
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Db     12  GTGACCATGAAGGCTGTGCTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCCAGGC    71

Qy     61  ACTGCCCTGCTGCTACTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAGGTG   120
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Db     72  ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG   131

Qy    121  GAGAACTGCACCCAGCTGGGGAGCAGTGCTGGGGAGCAGTGGCTGGACCGCGCGCAGTTGGCCTC   180
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Db    132  GAGAACTGCACCCAGCTGGGGAGCAGTGCTGGACCGCGCGCAGTTGGCCTC   191

Qy    181  CTGACCGTCATCAGCAAAGCTGCAGTTGAAACTGCCTGATGACTCACAGGACTACTAC   240
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Db    192  CTGACCGTCATCAGCAAAGCTGCAGTTGAAACTGCCTGATGACTCACAGGACTACTAC   251

Qy    241  GTGGGCAAGAAGAACATCACGTCGTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT   300
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    252  GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT   311

Qy    301  GCCCTGCAGCCGGTGCCGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTCTGG   360
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    312  GCCCTGCAGCCGCCGGTGCCGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTCTGG   371

Qy    361  GGACCCGGCCAGTATAGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGGCC   420
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    372  GGACCCGGCCAGCCGCTATAGGCTCTGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCC   431

Qy    421  CCAGGCCTTGTGCCACTTCCTCACAG-ACCTGGCCCAGTGGGAGCTGTCCTGGTTCCTG   479
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Db    432  CCAGGCCTTTGTGCCACTTCCTCACAGAACCTGGCCCAGTGGGAGCTGTCCTGGTTCCTG   491

Qy    480  AGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCC--ACCCTGA   537
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Db    492  AGGCACATCCTAACGCAAGTTTGACCATGTATGTTTGCACCCCTTTCCCCNAACCCTGA   551

Qy    538  CCCTCCCATGGCCCTC-TCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATC   596
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Db    552  CCTTCCCATGGCCCTTTTCCAGGATTCCNACCNGGCAGCATCAGTTTTAGTGANACANATC   611

Qy    597  CGCCTGCAGATGGGCCCCCCAACCCTCTCTGCTGTGTTCCATGGCCCAGCATTCTCCA   656
           ||||||||||||||||||| |||||||||||| ||||||||||
Db    612  CGCNTGCAGATGGGCCCCCTCCAACCNTTNTGTGNTGTTTCATGGCCCAGCATTTTCCA   671

Qy    657  CCCTTAACCCTGTGCTGCCAGGTCTGCTGGTCCGTGGTCCCCAGGAAGCCTTCCCTGCGCCACCCCATCT   716
           |||||||||||||||||||||||| ||||||||||||||||||||||
Db    672  CCCTTAACCCTGTGTTGCCAGGCACTTNTCCCCAGGAAGCCTTCCCTGCGCCACCCCATTT   731

Qy    717  ATGACTTGAGCCAGGTCTGGTCCGTGTCCCCCGTGGTGTCCCCAGCAGGGGGACAGGCACTCA   776
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Db    732  ATGAATTGAGCCAGGTTTGGTCCGTGTCCCCCGTGTCCCCACCCAGCAGGGGACAGGCAATCA   791

Qy    777  GGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGGAGGACAAGAGTCGA   836
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Db    792  GGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGGACAAGAGTTGA   851

Qy    837  CGTGAGTTCCTGGAGTCTCCAGAATGGGGGCCTGGAGGGGGGCCAGGCC   896
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Db    852  CGTGAGTTCCTGGAGTTTCCAGAATGGGGGCCTGGAGGGGGGCCAGGGCC   911

Qy    897  TCACATTCGTGGGGCTCCCGAATGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACAC   956
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Db    912  TCACATTCGTGGGGNTCCC-GAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACAC   970
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Qy    957  CTGTTGGATAAGCCCA   972
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Job time : 4870.26 secs
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           Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:     September 18, 2004, 04:33:41 ; Search time 635,407 Seconds
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Title:              US-09-079-874-11
Perfect score:      972
Sequence:           1 GTGACCATGAAGGCTGTGCT........ACACCTGTTGGATAAGCCCA 972

Scoring table:      IDENTITY_NUC
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Searched:           3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters:   6747726

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
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2	972	100.0	1023	2	AAV80397	Aav80397 Consensus
3	972	100.0	1023	2	AAV68613	Aav68613 Human PS1
4	972	100.0	1023	2	AAV68614	Aav68614 Human PS1
5	968.4	99.6	979	2	AAX36801	Aax36801 Human tra
6	959.4	98.7	1028	9	ADE53926	Ade53926 Human pro
7	953.4	98.1	960	2	AAX52217	Aax52217 Protein P
8	953.4	98.1	960	4	AAF72375	Aaf72375 Human PRO
9	953.4	98.1	960	6	ABK40257	Abk40257 cDNA enco
10	953.4	98.1	960	7	ACA58909	Aca58909 Human PRO
11	953.4	98.1	960	7	ACA58306	Aca58306 cDNA enco
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14	953.4	98.1	960	7	ABX71461	Abx71461 Human cDN
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22	953.4	98.1	960	8	ADA18078	Ada18078 Human sec
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ALIGNMENTS

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ID   AAV80396 standard; DNA; 972 BP.
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AC   AAV80396;
XX
DT   23-FEB-1999  (first entry)
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DE   Nucleotide sequence of UTI16 gene-specific clone 154367IIH.
XX
KW   UTI16; urinary tract; epitope; antigen; detection; diagnosing;
KW   monitoring; in vivo imaging; cancer; agonist; antibody; tumour;
KW   metastasis; ss.
XX
OS   Homo sapiens.
XX
FH   Key              Location/Qualifiers
FT   CDS              7..378
FT                    /tag= a
FT                    /product= "UTI16 polypeptide"
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PN   WO9851824-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;   98WO-US009972.
XX
PR   15-MAY-1997;   97US-00856652.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Granados EN;
PI   Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L, Russell JC;
PI   Stroupe SD;
XX
DR   WPI; 1999-045237/04.
DR   P-PSDB; AAW86024.
XX
PT   New method for detecting diseases of the urinary tract - comprises use of
PT   a UTI16 polynucleotide, protein or antibodies, used for preventing and
PT   treating urinary tract infections and cancer.
XX
PS   Claim 1; Fig 1A-C; 113pp; English.
XX
CC   Sequences AAV80386 to AAV80396 represent partially overlapping nucleotide
CC   sequences of the UTI16 gene-specific clones derived from urinary tract
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Db    781 GGCCCAGTAAGGCTGAGATGAAGTGGACTGAGTGAGGAACTGGAGGACAAGAGAGTCGACGTG 840
Qy    841 AGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGATGGGGGAGGAAGGGGCCAGGCCTCAC 900
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Db    841 AGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGCCTGGAGGATGGGGGAGGAAGGGGCCAGGCCTCAC 900
Qy    901 ATTCGTGGGGCTCCCTGAATGGCAGCCAGCCTGAGCACGTAGGCCCTTAATAAACACCTGT 960
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Db    901 ATTCGGGGGCTCCCTGAATGGCAGCCAGCCTGAGCACGTAGGCCCTTAATAAACACCTGT 960
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RESULT 2
AAV80397
ID   AAV80397 standard; DNA; 1023 BP.
XX
AC   AAV80397;
XX
DT   23-FEB-1999 (first entry)
XX
DE   Consensus nucleotide sequence of UT116 gene.
XX
KW   UT116; urinary tract; epitope; antigen; detection; diagnosing;
KW   monitoring; in vivo imaging; cancer; agonist; antibody; tumour;
KW   metastasis; ss.
XX
OS   Homo sapiens.
XX
FH   Key   Location/Qualifiers
FT   CDS   58..429
FT   /tag= a
FT   /product= "UT116 polypeptide"
XX
PN   WO9851824-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998; 98WO-US009972.
XX
PR   15-MAY-1997; 97US-00856652.
XX
PA   (ABBO) ABBOTT LAB.
XX
PI   Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Granados EN;
PI   Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L, Russell JC;
PI   Stroupe SD;
XX
DR   WPI; 1999-045237/04.
DR   P-PSDB; AAW86024.
XX
PT   New method for detecting diseases of the urinary tract - comprises use of
PT   a UT116 polynucleotide, protein or antibodies, used for preventing and
PT   treating urinary tract infections and cancer.
XX
PS   Claim 1; Fig 1A-C; 113pp; English.
XX
CC   This represents the consensus nucleotide sequence of the UT116 gene. The
CC   invention relates to a method of detecting the presence of a target UT116
CC   polynucleotide in a test sample using UT116-specific sequences (AAV80386
CC   to AAV80397). Host cells transfected with an expression vector containing
CC   the UT116 gene can be used to produce a UT116 polypeptide recombinantly.
CC   This polypeptide has at least one UT116 epitope which can be used in a
CC   method for detecting UT116 antigen in a test sample. The polynucleotides
CC   and polypeptides are useful for detecting, diagnosing, monitoring,
CC   staging, prognosticating, in vivo imaging, preventing, treating or
CC   determining the predisposition of a subject to diseases and conditions of
CC   the urinary tract, such as urinary tract cancer. Antibodies specifically
CC   binding to an epitope of UT116 antigen, and agonists are useful for
CC   treating urinary tract diseases, tumours and metastases
XX

CC   tissue. The invention relates to a method of detecting the presence of a
CC   target UT116 polynucleotide in a test sample using these UT116-specific
CC   sequences. Host cells transfected with an expression vector containing
CC   the UT116 gene can be used to produce a UT116 polypeptide recombinantly.
CC   This polypeptide has at least one UT116 epitope which can be used in a
CC   method for detecting UT116 antigen in a test sample. The polynucleotides
CC   and polypeptides are useful for detecting, diagnosing, monitoring,
CC   staging, prognosticating, in vivo imaging, preventing, treating or
CC   determining the predisposition of a subject to diseases and conditions of
CC   the urinary tract, such as urinary tract cancer. Antibodies specifically
CC   binding to an epitope of UT116 antigen, and agonists are useful for
CC   treating urinary tract diseases, tumours and metastases
XX
SQ   Sequence 972 BP; 180 A; 330 C; 280 G; 182 T; 0 U; 0 Other;

Query Match   100.0%; Score 972; DB 2; Length 972;
Best Local Similarity   100.0%;
Matches 972; Conservative   0; Mismatches   0; Indels   0; Gaps   0;
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Qy      1 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC 60
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Db      1 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC 60
Qy     61 ACTGCCCTGCTGTGCTACTCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 ACTGCCCTGCTGTGCTACTCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG 120
Qy    121 GAGAACTGCACCCAGCTGGGGAGCAGTGCTGCTGGAGACCGGCCGCATCCGCAGTTGGCCTC 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 GAGAACTGCACCCAGCTGGGGAGCAGTGCTGCTGGAGACCGGCCGCATCCGCAGTTGGCCTC 180
Qy    181 CTGACCGTCATCAGCAAAGGCTGCAGCTGCTGAACTGCGTGGATGACTCACAGGACTACTAC 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 CTGACCGTCATCAGCAAAGGCTGCAGCTGCTGAACTGCGTGGATGACTCACAGGACTACTAC 240
Qy    241 GTGGGCAAGAAGAAACATCACGTCGTGTGACAACGCCAGCGGGGCCCAT 300
          |||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 GTGGGCAAGAAGAAACATCACGTCGTGTGACAACGCCAGCGGGGCCCAT 300
Qy    301 GCCCTGCAGCCGGCTGCCGCCATCCTTGCGCTCCCTGCACTCGGCTCTGCTCTGG 360
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301 GCCCTGCAGCCGGCTGCCGCCATCCTTGCGCTCCCTGCACTCGGCTCTGCTCTGG 360
Qy    361 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGGGGGTGTGGGTGCC 420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGGGGGTGTGGGTGCC 420
Qy    421 CCAGGCCCTGTGTGCCACTCCTCACAGACCTGGCAGCCTGGAGCCTGGTCCTGGTTCCTGA 480
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421 CCAGGCCCTGTGTGCCACTCCTCACAGACCTGGCAGCCTGGAGCCTGGTCCTGGTTCCTGA 480
Qy    481 GGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCC 540
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481 GGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCC 540
Qy    541 TCCCATGGCCCTCTCCAGGACTCCCACCCGGCCAGATCAGTCTCAGTGACACAGATCCGCC 600
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541 TCCCATGGCCCTCTCCAGGACTCCCACCCGGCCAGATCAGTCTCAGTGACACAGATCCGCC 600
Qy    601 TGCAGATGGCCCCCCAACCCTCTGCTCGTTCCATGGCCAGCATTCTCCACCCT 660
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601 TGCAGATGGCCCCCCAACCCTCTCCAACCCTCTCGTTCCATGGCCAGCATTCTCCACCCT 660
Qy    661 TAACCCTGTGTCAGGACTCACCTTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 720
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661 TAACCCTGTGTCAGGACTCACCTTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGA 720
Qy    721 CTTGAGCCAGGTCGTGTCCGTGGTGTCCCCCCACCCCACCCCAGCAGGGGACACTCAGGAG 780
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721 CTTGAGCCAGGTCGTGTCCGTGGTGTCCCCCCACCCCACCCCAGCAGGGGACACTCAGGAG 780
Qy    781 GGCCCAGTAAGGCTGAGATGAAGTGGACTGAGTGAGGAACTGGAGGACAAGAGAGTCGACGTG 840
```

```
SQ  Sequence 1023 BP; 194 A; 350 C; 288 G; 191 T; 0 U; 0 Other;

Query Match      100.0%;  Score 972;  DB 2;  Length 1023;
Best Local Similarity  100.0%;  Pred. No. 1e-212;
Matches  972;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy      1 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGCGAGCCAGGC 60
            ||||||||||||||||||||||||||||||||||||||||||||||
Db     52 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGCGAGCCAGGC 111

Qy     61 ACTGCCCTGTGCTACTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCCAGGTG 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    112 ACTGCCCTGTGCTACTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCCAGGTG 171

Qy    121 GAGAACTGCAAGCAGCAGTGCTCGACCGGCGCATCCGCGCAGTTGGCCTC 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||
Db    172 GAGAACTGCAAGCAGCAGTGCTCGACCGGCGCATCCGCGCAGTTGGCCTC 231

Qy    181 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCTGCTGATGACTCACAGGACTACTAC 240
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    232 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCTGCTGATGACTCACAGGACTACTAC 291

Qy    241 GTGGGCAAGAAGAGACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT 300
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    292 GTGGGCAAGAAGAGACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT 351

Qy    301 GCCCTGCGAGCCGGCGGCTGCGCCCATCCTTGGCCTGCTCCCCGCACTCGGCCTGCTCTCGG 360
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Db    352 GCCCTGCAGCCGGCTGCCCGGCCATCCTTGCGCCTGCTCCCCGCACTCGGCCTGCTGTCTCGG 411

Qy    361 GGACCCGGCCAGCTATAGGCTCTGGGGGGGCCCCCGCAGCCCACACTGGGTGTGGTGCC 420
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    412 GGACCCGGCCAGCTATAGGCTCTGGGGGGGCCCGCAGCCCACACTGGGTGTGGTGCC 471

Qy    421 CCAGGCCCTTGTGCCACTCCTCACAGACTGGGAGCCTGTCCCAGTTGGAGCCTGTTCCTGA 480
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Db    472 CCAGGCCCTTGTGCCACTCCTCACAGACTGGGAGCCTGTCCCAGTTGGAGCCTGTTCCTGA 531

Qy    481 GGCACATCCTAAACGCAAGTTGACACATGTATGTCTGCACCCTGTCCCCACCCTGACCC 540
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    532 GGCACATCCTAACGCAAGTTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCC 591

Qy    541 TCCCATGGCCCCTTCCCACCCCTCTCTGCTGCTGGCAGATCAGCTCTAGTGACACAGATCCGCC 600
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Db    592 TCCCATGGCCCTTCCCACCCCTCTCTGCTGCTGGCAGATCAGCTCTAGTGACACAGATCCCC 651

Qy    601 TGCAGATGGCCCCTCCAACCCCTTCTCTGCTGCTGTTTCCATGGCCCAGCATTCCCCACCCT 660
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Db    652 TGCAGATGGCCCCTCCAACCCCTTCTCTGCTGCTGTTTCCATGGCCCAGCATTCCCCACCCT 711

Qy    661 TAACCCTGTGCTCAGGCACCCTCTTCCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 720
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Db    712 TAACCCTGTGCTCAGGCACCCTCTTCCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGA 771

Qy    721 CTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCGTCCCCAGCAGGGACCAGGCACTCAGGAG 780
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    772 CTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCGTCCCCAGCAGGGACAGGCACTCAGGAG 831

Qy    781 GGCCCAGTAAAGGCTGAGATGAAGGCTGAGATGAAGAGTCGACGTG 840
            ||||||||||||||||||||||||||||||||||||||||||||||
Db    832 GGCCCAGTAAAGGCTGAGATGAAGGCTGAGATGAAGAGTCGACGTG 891

Qy    841 AGTTCCTGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTTCAC 900
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    892 AGTTCCTGGAGTCTCCAGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTTCAC 951

Qy    901 ATTCGTGGGGGCTCCCTGAATGCAGCACAGCGTAGGCCCTTAATAAACACCTGT 960
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    952 ATTCGTGGGGGCTCCCTGAATGCAGCACAGCGTAGGCCCTTAATAAACACCTGT 1011

Qy    961 TGGATAAGCCCA 972
            ||||||||||||
Db   1012 TGGATAAGCCCA 1023
```

RESULT 3

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AAV68613
ID   AAV68613 standard; cDNA; 1023 BP.
XX
AC   AAV68613;
XX
DT   16-MAR-1999  (first entry)
XX
DE   Human PS116 EST clone 1543671IH.
XX
KW   Human; expressed sequence tag; EST; prostate disease; diagnosis; tumour;
KW   detection; therapy; prostate cancer; metastasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO9851805-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;    98WO-US010041.
XX
PR   15-MAY-1997;    97US-00856653.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA,  Cohen M,  Colpitts TL,  Friedman PN,  Gordon J;
PI   Granados EN,  Hodges SC,  Klass MR,  Kratochvil JD,  Roberts-Rapp L;
PI   Russell JC,  Stroupe SD;
XX
DR   WPI; 1999-045234/04.
XX
PT   New method for detecting diseases of the prostate - comprises use of a
PT   PS116 polynucleotide, protein or antibodies, useful for preventing and
PT   treating prostate infections and cancer.
XX
PS   Claim 1; Page 94; 118pp; English.
XX
CC   This sequence represents an expressed sequence tag (EST) clone of the
CC   PS116 gene isolated from a human prostate tissue library. This sequence
CC   can be used in the method of the invention for detecting a target PS116
CC   polynucleotide (PN), that comprises: contacting a sample with at least 1
CC   PS116-specific PN or complement; and detecting the target PS116 PN, where
CC   the specific PN has at least 50% identity with this sequence. The PNs,
CC   PS116 polypeptides or PS116 amplicons are used to detect prostate
CC   disease. Antibodies (Abs) against PS116 are used in assay kits to detect
CC   PS116 antigen or anti-PS116 Ab, and the Abs are preferably attached to a
CC   solid phase. The polypeptides are used for detecting PS116-specific Abs
CC   in a sample, and for producing Abs after immunising a subject. Plasmids
CC   encoding PS116 epitopes can also be administered to a subject to obtain
CC   Abs. The cDNAs and polypeptides are useful for detecting, diagnosing,
CC   staging, monitoring, prognosticating, in vivo imaging, preventing,
CC   treating or determining the predisposition of a subject to diseases and
CC   conditions of the prostate, such as prostate cancer. The Abs and agonists
CC   or inhibitors are useful for treating prostate diseases, tumours and
CC   metastases
XX
SQ   Sequence 1023 BP; 194 A; 350 C; 288 G; 191 T; 0 U; 0 Other;

Query Match      100.0%;  Score 972;  DB 2;  Length 1023;
Best Local Similarity  100.0%;  Pred. No. 1e-212;
Matches  972;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy      1 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGCGAGCCAGGC 60
            ||||||||||||||||||||||||||||||||||||||||||||||
Db     52 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGCGAGCCAGGC 111

Qy     61 ACTGCCCTGTGCTACTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCCAGGTG 120
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    112 ACTGCCCTGTGCTACTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCCAGGTG 171

Qy    121 GAGAACTGCAGCACCCAGCAGTGCTGCAGCAGTGCTGGACCGGCGCATCCGCGCAGTTGGCCTC 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    172 GAGAACTGCAGCACCCAGCAGACAATCACGTGCTGTGCGTGATGACTCACAGACTACTAC 180
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OS   Homo sapiens.
XX
PN   WO9851805-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;    98WO-US010041.
XX
PR   15-MAY-1997;    97US-00856653.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Gordon J;
PI   Granados EN, Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L;
PI   Russell JC, Stroupe SD;
XX
DR   WPI; 1999-045234/04.
XX
PT   New method for detecting diseases of the prostate - comprises use of a
PT   PS116 polynucleotide, protein or antibodies, useful for preventing and
PT   treating prostate infections and cancer.
XX
PS   Claim 1; Page 94; 118pp; English.
XX
CC   This sequence represents an expressed sequence tag (EST) clone of the
CC   PS116 gene isolated from a human prostate tissue library. This sequence
CC   can be used in the method of the invention for detecting a target PS116
CC   polynucleotide (PN), that comprises: contacting a sample with at least 1
CC   PS116-specific PN or complement; and detecting the target PS116 PN, where
CC   the specific PN has at least 50% identity with this sequence. The PNs,
CC   PS116 polypeptides or PS116 amplicons are used to detect prostate
CC   disease. Antibodies (ABs) against PS116 are used in assay kits to detect
CC   PS116 antigen or anti-PS116 Ab, and the Abs are preferably attached to a
CC   solid phase. The polypeptides are used for detecting PS116-specific Abs
CC   in a sample, and for producing Abs after immunising a subject. Plasmids
CC   encoding PS116 epitopes can also be administered to a subject to obtain
CC   Abs. The cDNAs and polypeptides are useful for detecting, diagnosing,
CC   staging, monitoring, prognosticating, in vivo imaging, preventing,
CC   treating or determining the predisposition of a subject to diseases and
CC   conditions of the prostate, such as prostate cancer. The Abs and agonists
CC   or inhibitors are useful for treating prostate diseases, tumours and
CC   metastases
XX
SQ   Sequence 1023 BP; 194 A; 350 C; 288 G; 191 T; 0 U; 0 Other;

Query Match            100.0%;    Score 972;    DB 2;    Length 1023;
Best Local Similarity  100.0%;    Pred. No. 1e-212;
Matches  972;    Conservative   0;    Mismatches   0;    Indels   0;    Gaps   0;

Qy     1 GTGACCATGAAGGCGTGTGCTGCTTGCCCCTGTTGCCCCGTTGATGGCCAGGCTCAGCAGGC 60
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Db    52 GTGACCATGAAGGCGTGTGCTGCTTGCCCCTGTTGCCCGTTGATGGCCAGGCTCAGCAGGC 111

Qy    61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCTGAGCAGGTGAGCAACGAGACTGCCTGCAGGTG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   112 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCTGAGCAGGTGAGCAACGAGACTGCCTGCAGGTG 171

Qy   121 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGCGACCGGCATCCGGCAGTTGGCCTC 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   172 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGCGACCGGCATCCGGCAGTTGGCCTC 231

Qy   181 CTGACCGTCATCAGCAGAAGCTGCAAAGGCTGAACTCGTGATGACTCACAGGACTACTAC 240
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   232 CTGACCGTCATCAGCAGAAGCTGCAAAGGCTGAACTCGTGATGACTCACAGGACTACTAC 291

Qy   241 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT 300
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   292 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT 351

Qy   301 GCCCTGCAGCCGGCCGCTGCGCCCATCCTTGCGCTGTCCCTGCACTCGGCCTGCTCTGG 360
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Db   352 GCCCTGCAGCCGGCCGCTGCGCCCATCCTTGCGCTGTCCCTGCACTCGGCCTGCTCTGG 411

Qy   361 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGTGCC 420
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   412 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGTGCC 471

Qy   421 CCAGGCCCTGTGCCACTCCTCACAGACCTGGGAGGAGCCTTGCCTGTCCTGGTTCCTGA 480
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   472 CCAGGCCCTGTGCCACTCCTCACAGACCTGGGAGGAGCCTTGCCTGTCCTGGTTCCTGA 531

Qy   481 GGCACATCTCAACGCAAGTCTGACATGTATGTCTGCACCCCTGTCCCCACCCTGACCC 540
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   532 GGCACATCTCAACGCAAGTCTGACATGTATGTCTGCACCCCTGTCCCCACCCTGACCC 591

Qy   541 TCCATGGCCCTCCAGGACTCCCACCCGGCAGATCAGTCTCTAGTGACACAGATCCGCC 600
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   592 TCCATGGCCCTCCAGGACTCCCACCCGGCAGATCAGTCTCTAGTGACACAGATCCGCC 651

Qy   601 TGCAGATGGCCCCCTCCCAACCCTCTGCTGTGTTTCCATGGCCCAGCATTCTCCACCCT 660
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   652 TGCAGATGGCCCCCTCCCAACCCTCTGCTGTGTTTCCATGGCCCAGCATTCTCCACCCT 711

Qy   661 TAACCCTGTGCTCAGGCACCTGTTCCCCAGGAAGCTTCCCTGCCCACCCATCTATGA 720
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   712 TAACCCTGTGCTCAGGCACCTGTTCCCCAGGAAGCTTCCCTGCCCACCCATCTATGA 771

Qy   721 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGACCCACCCAGCAGGGACACTCAGGAG 780
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   772 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGACCCACCCAGCAGGGACACTCAGGAG 831

Qy   781 GGGCCAGTAAAGGCTGAGATGAAGTGGAGACTGAGTGAACTGCACAAGAGTGCACGTG 840
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   832 GGGCCAGTAAAGGCTGAGATGAAGTGGAGACTGAGTGAACTGCACAAGAGTGCACGTG 891

Qy   841 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGAAGGGGCCAGGCCTCAC 900
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   892 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAGAAGGGGCCAGGCCTCAC 951

Qy   901 ATTCGTGGGGTCCTCCGAATGGCAGCCTGAGCACAGCAGGCCTAGCCCCTTAATAAACACCTGT 960
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   952 ATTCGTGGGGTCCTCCGAATGGCAGCCTGAGCACAGCAGGCCTAGCCCCTTAATAAACACCTGT 1011

Qy   961 TGGATAAGCCCA 972
         ||||||||||||
Db  1012 TGGATAAGCCCA 1023
```

RESULT 4

```
AAV68614
ID   AAV68614 standard; cDNA; 1023 BP.
XX
AC   AAV68614;
XX
DT   16-MAR-1999   (first entry)
XX
DE   Human PS116 EST clone consensus sequence.
XX
KW   Human; expressed sequence tag; EST; prostate disease; diagnosis; tumour;
KW   detection; therapy; prostate cancer; metastasis; ss.
XX
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PI   Kato S, Yamaguchi T, Sekine S, Kobayashi M;
XX
DR   WPI; 1999-277268/23.
DR   P-PSDB; AAY13938.
XX
PT   Human transmembrane proteins and nucleotide sequences.
XX
PS   Claim 4; Page 104-105; 139pp; English.
XX
CC   This sequence encodes a human transmembrane protein of the invention. All
CC   of the proteins exist in the cell membrane, so are considered to be
CC   proteins controlling the proliferation and differentiation of the cells.
CC   They may be useful as carcinostatic agents or as antigens for preparing
CC   antibodies against the proteins. The cDNAs can be used as probes for gene
CC   diagnosis and gene sources for gene therapy, as well as for large-scale
CC   expression of the proteins. The HP01498 (see AAY13939) protein may be
CC   associated with signal transduction associated with apoptosis, and
CC   therefore useful in inhibition of apoptosis. The HP01962 (see AAY13943)
CC   protein can be used to treat diseases associated with
CC   phopshatidylethanolamine N-methyltransferase. The proteins are identified
CC   by the presence of a hydrophobic transmembrane region, knowledge of the
CC   protein function is not required, as in e.g. methods of expression
CC   cloning
XX
SQ   Sequence 979 BP; 183 A; 334 C; 280 G; 182 T; 0 U; 0 Other;

Query Match            99.6%;    Score 968.4;    DB 2;    Length 979;
Best Local Similarity  99.9%;    Pred. No. 6.7e-212;
Matches  969;    Conservative  0;    Mismatches  0;    Indels  0;    Gaps  0;

Qy    1 GTGACCATGAAGGCTGTGCTGCTGCCCTGTTGATGCAGCGTTGGCCCTGAGCCAGGC  60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   10 GTGACCATGAAGGCTGTGCTGCTGCCCTGTTGATGCAGCGTTGGCCCTGAGCCAGGC  69

Qy   61 ACTGCCCTGCTACTCCTGCTGCTGCTCCTGCTGCAAAGCCCAGTGAGCAACGAGGACTG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   70 ACTGCCCTGCTACTCCTGCTGCTGCTCCTGCTGCAAAGCCCAGTGAGCAACGAGGACTG 129

Qy  121 GAGAACTGCACCCAGCTGGGGAGCAGTGCTGACCGGCGCATCCGGCGCAGTTGGCCTC 180
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  130 AAGAACTGCACCCAGCTGGGGAGCAGTGCTGACCGGCGCATCCGGCGCAGTTGGCCTC 189

Qy  181 CTGACCGTCATCAGCAAAGGCTGCAGTTGAACTGCCAGCTTGAACTGCCAGGACTACTAC 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  190 CTGACCGTCATCAGCAAAGGCTGCAGTTGAACTGCCAGCTTGAACTGCCAGGACTACTAC 249

Qy  241 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGGCCAGCGGGCCCAT 300
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  250 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGGCCAGCGGGCCCAT 309

Qy  301 GCCCTGCAGCCGGCCCATCCTTCGCGTGCCTCCTGCACTCGGCCTGCTGCTGCTCCTGG 360
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  310 GCCCTGCAGCCGGCCCATCCTTCGCGTGCCTCCTGCACTCGGCCTGCTGCTGCTCCTGG 369

Qy  361 GGACCCGGCCAGTATAGGCTTGGGGGTGTGGTGGCC 420
         ||||||||||||||||||||||||||||||||||||
Db  370 GGACCCGGCCAGTATAGGCTTGGGGGTGTGGTGGCC 429

Qy  421 CCAGGCCTCCTGTGCCACTCCTCACAGACCTTGTGTTCCTGTTCCTGA 480
         ||||||||||||||||||||||||||||||||||||||||||||||||
Db  430 CCAGGCCTCCTGTGCCACTCCTCACAGACCTTGTGTTCCTGTTCCTGA 489

Qy  481 GGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCCACCCTGACCC 540
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  490 GGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCCACCCTGACCC 549

Qy  541 TCCCATGGCCCTTCCAGGACTCCAGCTCAGTGACACAGATCCGGC 600
         |||||||||||||||||||||||||||||||||||||||||||||
Db  550 TCCCATGGCCCTTCCAGGACTCCAGCTCAGTGACACAGATCCGGC 609

Qy  601 TGCAGATGGCCCCTCCAACCCTCTGTTCCATGGCCCAGCATTCTCCACCCT 660
         ||||||||||||||||||||||||||||||||||||||||||||||||||
Db  610 TGCAGATGGCCCCTCCAACCCTCTGTTCCATGGCCCAGCATTCTCCACCCT 669
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Qy  361 GGACCCGGCCAGTCTATAGGCTCTGGGGGCCCGCTGCAGCCCACACTGGGTGTGGTGCC 420
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  412 GGACCCGGCCAGTCTATAGGCTCTGGGGGCCCGCTGCAGCCCACACTGGGTGTGGTGCC 471

Qy  421 CCAGGCCTGTCTGTGCCACTCCTCACAGACTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGA 480
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  472 CCAGGCCTCTGTGCCACTCCTCACAGACTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGA 531

Qy  481 GGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCCACCCTGACCC 540
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  532 GGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCCACCCTGACCC 591

Qy  541 TCCCATGGCCCTTCCAGGACTCCACCCCGCAGATCAGCTCTAGTGACACAGATCCGGC 600
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  592 TCCCATGGCCCTTCCAGGACTCCACCCCGCAGATCAGCTCTAGTGACACAGATCCGGC 651

Qy  601 TGCAGATGGCCCCTCCAACCCTCTGTTCCATGGCCCAGCATTCTCCACCCT 660
         ||||||||||||||||||||||||||||||||||||||||||||||||||
Db  652 TGCAGATGGCCCCTCCAACCCTCTGTTCCATGGCCCAGCATTCTCCACCCT 711

Qy  661 TAACCCTGTCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCCCACCCATCTATGA 720
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  712 TAACCCTGTCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCCCACCCATCTATGA 771

Qy  721 CTTGAGCCAGTCGGTTCGGTCCGTGGTGTCCCCGACCCAGCAGGGGACAGGCACTCAGGAG 780
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  772 CTTGAGCCAGTCGGTTCGGTCCGTGGTGTCCCCGACCCAGCAGGGGACAGGCACTCAGGAG 831

Qy  781 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 840
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  832 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 891

Qy  841 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGGGAAGGGGCCAGGCCTCAC 900
         ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  892 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGAGGGGAAGGGGCCAGGCCTCAC 951

Qy  901 ATTGCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCCGTAGGCCTTAATAAACACCTGT 960
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  952 ATTGCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCCGTAGGCCTTAATAAACACCTGT 1011

Qy  961 TGGATAAGCCCA 972
         ||||||||||||
Db 1012 TGGATAAGCCCA 1023
```

```
RESULT 5
AAX36801
ID   AAX36801 standard; DNA; 979 BP.
XX
AC   AAX36801;
XX
DT   14-JUL-1999  (first entry)
XX
DE   Human transmembrane protein coding sequence, HP01244.
XX
KW   Transmembrane protein; human; cell membrane; proliferation; diagnosis;
KW   cell differentiation; carcinostatic agent; probe; gene therapy;
KW   signal transduction; apoptosis; inhibitor;
KW   phopshatidylethanolamine N-methyltransferase; ss.
XX
OS   Homo sapiens.
XX
PN   WO9918203-A2.
XX
PD   15-APR-1999.
XX
PF   05-OCT-1998;  98WO-JP004475.
XX
PR   08-OCT-1997;  97JP-00276271.
XX
PA   (SAGA ) SAGAMI CHEM RES CENT.
PA   (PROT-) PROTEGENE INC.
XX
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CC   progression of treatment of prostate cancer. The antibodies are useful
CC   for detecting prostate cancer. This sequence represents a human prostate
XX   cancer cDNA of the invention.
SQ   Sequence 1028 BP; 199 A; 350 C; 288 G; 191 T; 0 U; 0 Other;

Query Match    98.7%;  Score 959.4;  DB 9;  Length 1028;
Best Local Similarity  99.8%;  Pred. No 7.8e-210;
Matches  971;  Mismatches  0;  Conservative  0;  Indels  1;  Gaps  1;

Qy      1 GTGACCATGAAGGCTGCGTGCTTGCCCTGTTGATGGCAGGAGGTTGGCCCTGCAGCCAGGC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     52 GTGACCATGAAGGCTGCGTGCTTGCCCTGTTGATGGCAGGAGGTTGGCCCTGCAGCCAGGC 111

Qy     61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGTGAGCAACCAGGTGAGCGCCTGCAGTG 120
          ||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||| |
Db    112 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGTGAGCAACAGGTGAGCGCCTGCAGGTG 171

Qy    121 GAGAACTGCACCCAGCTGGGAGCAGTGCTGGACCGCGGCATCCGCGCAGTTGGCCTC 180
          |||||||||||||||||||| |||||||||||||||||||||||||||||||||||
Db    172 GAGAACTGCACCCAGCTGGGGAGCAGTGCTGGACCGCGGCATCCGCGCAGTTGGCCTC 231

Qy    181 CTGACCGTCATCAGCAAAGCTGCAGCTTGAACTGCGTGATGACTCACAGGACTACTAC 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    232 CTGACCGTCATCAGCAAAGCTGCAGCTTGAACTGCGTGATGACTCACAGGACTACTAC 291

Qy    241 GTGGGCAAAGAAGACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT 300
          |||||||| |||||||||||||||||||||||||||||||||||||||||||||||||||
Db    292 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT 351

Qy    301 GCCCTGCAGCCGGCGTGCCCGCCATCCTGGGCTGCCCCTGCCACTCGGCCTGCTGCTCTG 360
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    352 GCCCTGCAGCCGGCGTGCCCGCCATCCTGGGCTGCCCCTGCCACTCGGCCTGCTGCTCTG 411

Qy    361 GGACCCGGCCAGCTATAGGCTCTGGGGG-CCCCGGGG 419
          ||||||||||||||||||||||||||| ||||||||
Db    412 GGACCCGGCCAGCTATAGGCTCTGGGGGGGCCCCGGGG 471

Qy    420 CCCAGGCCTCTGTGCCACTCCTCACAGACTGGGACTTGGGAGCCTGTCTGTTCCTG 479
          |||||||||||||||||||||||||||||||||| |||||||||||||||||||||
Db    472 CCCAGGCCTCTGTGCCACTCCTCACAGACTGGGAGCTGGGAGCCTGTCTGTTCCTG 531

Qy    480 AGGCACATCCTAACGCAAGTCGACCATGTATGTCTGCACCCCTGACC 539
          |||||||||||||||||||||||||||||||||||||||||||||||
Db    532 AGGCACATCCTAACGCAAGTCGACCATGTATGTCTGCACCCCTGACC 591

Qy    540 CTCCCATGGCCCTCTCCAGGACTCTCGTCAGTGACACAGATCCGC 599
          |||||||||||||||| |||||||||| |||||||||||||||||
Db    592 CTCCCATGGCCCTCTCCAACCCTCTCGTGTCTTCATGGCCCAGCATTCTCCACCC 651

Qy    600 CTGCAGATGAGTGCCCTCCAACCCTCTCGTGTTTCATGGCCCAGCATTCTCCACCC 659
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    652 CTGCAGATGGGTGCCCTCCAACCCTCTCGTGTTTCATGGCCCAGCATTCTCCACCC 711

Qy    660 TTAACCCGTGCTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATG 719
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    712 TTAACCCGTGCTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATG 771

Qy    720 ACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGACCAGGGGACACAGGCACTCAGGA 779
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    772 ACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGACCAGGGGACACAGGCACTCAGGA 831

Qy    780 GGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGGGCCAGGCACGT 839
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    832 GGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGGGCCAGGCACGT 891

Qy    840 GAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCA 899
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    892 GAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCA 951

Qy    900 CATTCGTGGGGCTCCTGAATGGCAGCAGCAGCCTGAGCAGCCCTTAATAAACACCTG 959
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    952 CATTCGTGGGGCTCCTGAATGGCAGCAGCAGCCTGAGCAGCCCTTAATAAACACCTG 1011
```

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Qy    661 TAACCCGTGCTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTTATGA 720
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    670 TAACCCGTGCTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTTATGA 729

Qy    721 CTTGAGCCAGGTCGGTCGTCCGTGCGTGTCCCCCAGCAGGGGACAGGCACTCAGGAG 780
          |||||||||||| |||||||||||||||||||||||||||||||||||||||||||
Db    730 CTTGAGCCAGGTCGGTCGTCCGTGCGTGTCCCCCAGCAGGGGACAGGCACTCAGGAG 789

Qy    781 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 840
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    790 GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTG 849

Qy    841 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 900
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    850 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC 909

Qy    901 ATTCGTGGGGCTCCTGAATGGCAGCACAGCCTAGGCCCTTAATAAACACCTGT 960
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    910 ATTCGTGGGGCTCCTGAATGGCAGCACAGCCTAGGCCCTTAATAAACACCTGT 969

Qy    961 TGGATAAGCC 970
          ||||||||||
Db    970 TGGATAAGCC 979


RESULT 6
ADE53926
ID   ADE53926 standard; cDNA; 1028 BP.
XX
AC   ADE53926;
XX
DT   29-JAN-2004  (first entry)
XX
DE   Human prostate cancer cDNA #273.
XX
KW   Human; prostate cancer; ss; cDNA combination; differential expression;
KW   gene.
XX
OS   Homo sapiens.
XX
PN   US2003190640-A1.
XX
PD   09-OCT-2003.
XX
PF   29-MAY-2002; 2002US-00252157.
XX
PR   31-MAY-2001; 2001US-0295048P.
XX
PA   (FARI/) FARIS M.
PA   (PEAR/) PEARSON C I.
XX
PI   Faris M, Pearson CI;
XX
DR   WPI; 2003-831619/77.
XX
PT   New combination comprising cDNAs that are differentially expressed in
PT   prostate cancer, useful for diagnosing, treating or monitoring the
PT   progression of treatment of prostate cancer.
XX
PS   Claim 1; SEQ ID NO 273; 42pp; English.
XX
CC   The invention relates to a combination comprising a number of cDNAs
CC   expressed in prostate cancer. The invention also relates to a method for
CC   detecting differential expression of one or more cDNAs in a sample
CC   containing nucleic acids by hybridising a substrate with the nucleic
CC   acids, thus forming one or more hybridisation complexes, detecting
CC   hybridisation complex formation and comparing the complexes formed with
CC   standard complexes, where differences between the standard and the sample
CC   complex formation indicate differential expression of cDNAs in the
CC   sample. The differential expression is diagnostic of prostate cancer. The
CC   invention also relates to proteins and antibodies related to the cDNAs.
CC   The combination is useful for diagnosing, treating or monitoring the
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Qy        960 TTGGATAAGCCCA 972
              ||||||||||||
Db       1012 TTGGATAAGCCAA 1024
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RESULT 7
AAX52217
ID   AAX52217 standard; DNA; 960 BP.
XX
AC   AAX52217;
XX
DT   25-JUN-1999 (first entry)
XX
DE   Protein PRO232 cDNA clone DNA34435-1140.
XX
KW   Secreted protein; transmembrane protein; human; enterocolitis;
KW   Zollinger-Ellison syndrome; gastrointestinal ulceration;
KW   congenital microvillus atrophy; skin disease; cell growth;
KW   abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW   Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
KW   dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;
KW   wound healing; tissue repair; ss.
XX
OS   Homo sapiens.
XX
PN   WO991432B-A2.
XX
PD   25-MAR-1999.
XX
PF   16-SEP-1998; 98WO-US019330.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
PR   17-SEP-1997; 97US-0059121P.
PR   17-SEP-1997; 97US-0059122P.
PR   17-SEP-1997; 97US-0059124P.
PR   18-SEP-1997; 97US-0059263P.
PR   18-SEP-1997; 97US-0059265P.
PR   15-OCT-1997; 97US-0062125P.
PR   17-OCT-1997; 97US-0062285P.
PR   17-OCT-1997; 97US-0062287P.
PR   21-OCT-1997; 97US-0063486P.
PR   24-OCT-1997; 97US-0062814P.
PR   24-OCT-1997; 97US-0062816P.
PR   24-OCT-1997; 97US-0063045P.
PR   24-OCT-1997; 97US-0063120P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063128P.
PR   27-OCT-1997; 97US-0063327P.
PR   27-OCT-1997; 97US-0063329P.
PR   28-OCT-1997; 97US-0063541P.
PR   28-OCT-1997; 97US-0063542P.
PR   28-OCT-1997; 97US-0063544P.
PR   28-OCT-1997; 97US-0063549P.
PR   28-OCT-1997; 97US-0063550P.
PR   28-OCT-1997; 97US-0063564P.
PR   29-OCT-1997; 97US-0063435P.
PR   29-OCT-1997; 97US-0063704P.
PR   29-OCT-1997; 97US-0063732P.
PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064248P.
PR   07-NOV-1997; 97US-0064809P.
PR   12-NOV-1997; 97US-0051186P.
PR   17-NOV-1997; 97US-0065846P.
PR   18-NOV-1997; 97US-0065693P.
PR   21-NOV-1997; 97US-0066120P.
PR   21-NOV-1997; 97US-0066364P.
PR   24-NOV-1997; 97US-0066453P.
PR   24-NOV-1997; 97US-0066466P.
PR   24-NOV-1997; 97US-0066511P.
PR   24-NOV-1997; 97US-0066770P.
PR   24-NOV-1997; 97US-0066772P.
PR   25-NOV-1997; 97US-0066840P.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
XX
DR   WPI; 1999-229533/19.
DR   P-PSDB; AAY13347.
XX
PT   New isolated human genes and polypeptides used in, e.g. treatment of
PT   gastrointestinal ulceration.
XX
PS   Claim 2; Fig 8; 320pp; English.
XX
CC   AAX52213-74 encode secreted and transmembrane human proteins, and are
CC   obtained from cDNA libraries, prepared from fetal lung, fetal kidney,
CC   fetal brain, fetal liver and fetal retina. The encoded polypeptides have
CC   specific uses based on their homology to known polypeptides e.g. PRO211
CC   and PRO217 can be used for disorders associated with the preservation and
CC   maintenance of gastrointestinal mucosa and the repair of acute and
CC   chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome,
CC   gastrointestinal ulceration and congenital microvillus atrophy), skin
CC   diseases associated with abnormal keratinocyte differentiation (e.g.
CC   psoriasis, epithelial cancers such as lung squamous cell carcinoma of the
CC   vulva and gliomas), potent effects on cell growth and development,
CC   diseases related to growth or survival of nerve cells including
CC   Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer.
CC   PRO265 can be used as for fibromodulin, e.g. for reducing dermal
CC   scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may
CC   be used in the treatment of Usher Syndrome or Atrophia areata. PRO269 can
CC   be used as an anti-thrombotic agent; PRO287 polypeptides and portions may
CC   have therapeutic applications in wound healing and tissue repair; PRO317
CC   can be used for treating problems of the kidney, uterus, endometrium,
CC   blood vessels, or related tissue, e.g. in the heart of genital tract
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   98.1%; Score 953.4; DB 2; Length 960;
Best Local Similarity   99.9%; Pred. No. 1.8e-208;
Matches 954; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   18 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCCCTGCAGGCACTGCCCTGCCTGTGCTA 77
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCCCTGCAGGCACTGCCCTGCCTGTGCTA 60

Qy   78 CTTCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 137
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTTCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy   138 GGGGGAGCAGTGCTGGACCGCGCCATCCGCGGCAGTGGCCTCCTGACCGTCATCAGCAA 197
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGCTGGACCGCGCCATCCGCGGCAGTGGCCTCCTGACCGTCATCAGCAA 180

Qy   198 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTCACAGGACTACTGTGGGCAAGAAGAACAT 257
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTCACAGGACTACTGTGGGCAAGAAGAACAT 240

Qy   258 CACGTGCTGTGACACCGACTTGTCAACGCCAGCGGGCCCATGCCCTGCAGCCGGCTGC 317
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTCAACGCCAGCGGGCCCATGCCCTGCAGCCGGCTGC 300

Qy   318 CGCCATCCTTGGGCTGCTCCCTGCACTTGGCCTCTGGGGACCCGGCCAGCTATA 377
            |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTGGGCTGCTCCCTGCACTTGGCCTCTGGGGACCCGGCCAGCTATA 360
```

PR          05-OCT-1999;    99WO-US023089.
PR          29-NOV-1999;    99WO-US028214.
PR          30-NOV-1999;    99WO-US028313.
PR          02-DEC-1999;    99WO-US028564.
PR          02-DEC-1999;    99WO-US028565.
PR          16-DEC-1999;    99WO-US030095.
PR          20-DEC-1999;    99WO-US030911.
PR          20-DEC-1999;    99WO-US030999.
PR          05-JAN-2000;    2000WO-US000219.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME, Goddard A;
PI   Godowski PJ,   Grimaldi CJ,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2001-081051/09.
XX
PT   Sixty one nucleic acids encoding PRO polypeptides which are useful in the
PT   treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous
PT   cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
PT   disease).
XX
PS   Claim 2; Fig 8; 393pp; English.
XX
CC   The present sequence is an EST used to isolate one of sixty one nucleic
CC   acids encoding novel secreted and transmembrane PRO polypeptides. The PRO
CC   polypeptides are useful for treating skin diseases (e.g. psoriasis),
CC   cancers (e.g. lung squamous cell carcinoma/, gastrointestinal disorders
CC   (e.g. enterocolitis), neurodegenerative diseases (e.g. Alzheimer's
CC   disease, Parkinson's disease), wound repair, cardiovascular disorders
CC   (e.g. endometrial bleeding angiogenesis, ischaemias such as coronary
CC   ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma,
CC   rheumatoid arthritis, multiple sclerosis), infertility, AIDS and diabetes
CC   and retinal disorders such as retinitis pigmentosum. The PRO nucleic
CC   acids have applications in molecular biology, including use as
CC   hybridization probes, and in chromosome and gene mapping
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             98.1%;  Score 953.4;  DB 4;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 1.8e-208;
Matches  954;      Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          18 GCTGCTTGCCCGTTGATGGCAGCCTGCCCTGCAGCCAGGCACTGCCCTGCGTGTGCTA 77
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db           1 GCTGCTTGCCCGTTGATGGCAGCCTGCCCTGCAGCCAGGCACTGCCCTGCGTGTGCTA 60

Qy          78 CTCCTGCAAAGCCCAGGTGAGCAACGAGCAACGAGGACTGCCTCCAGGTGGAACTGCACCCAGCT 137
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          61 CTCCTGCAAAGCCCAGGTGAGCAACGAGCAACGAGGACTGCCTCCAGGTGGAACTGCACCCAGCT 120

Qy         138 GGGGGAGCAGCAGTGCTGACACCGCGCATCCGCGCAGTTGGCCTCCGACCGGTCATCAGCAA 197
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         121 GGGGGAGCAGCAGTGCTGACACCGCGCATCCGCGCAGTTGGCCTCCGACCGGTCATCAGCAA 180

Qy         198 AGGCTGCAGCTTGAACTGGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAGAACAT 257
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 AGGCTGCAGCTTGAACTGGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAGAACAT 240

Qy         258 CACGTGCTGTGACACGACTTGTGCAAGCGCCCATGCCCTGCAGCCGGGCCGCTGC 317
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         241 CACGTGCTGTGACACGACTTGTGCAAGCGCCCATGCCCTGCAGCCGGGCCGCTGC 300

Qy         318 CGGCCATCCTTGGCCTGCTCCCTGCACTCGGCTCGGGGGACCCGGCCCAGCTATA 377
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         301 CGGCCATCCTTGGCCTGCTCCCTGCACTCGGCTCGGGGGACCCGGCCCAGCTATA 360

Qy         378 GGCTCTCTGGGGGCCCGCCTCAGCCACACTGGGTGTGGTGCCCAGGCCTCTGCCAC 437
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         361 GGCTCTCTGGGGGCCCGCCTCAGCCACACTGGGTGTGGTGCCCAGGCCTCTGTGCCAC 420

Qy         378 GGCTCTCTGGGGGCCCGCCTGCAGCCCACACTGGGTGTGGTGCCCAGGCCTCTGTGCCAC 437
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         361 GGCTCTCTGGGGGCCCGCCTGCAGCCCACACTGGGTGTGGTGCCCAGGCCTCTGTGCCAC 420

Qy         438 TCCTCACAGACCTGGCCCAGTGGAGCCGTCCTGGTTCCTGAGGCACATCCTAACGCAA 497
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         421 TCCTCACAGACCTGGCCCAGTGGGAGCCGTCCTGGTTCCTGAGGCACATCCTAACGCAA 480

Qy         498 GTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCCTCCTCCATGGCCCCTCCA 557
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         481 GTCTGACCATGTATGTCTGCACCCTGTCCCCCACCCTGACCCTCCCATGGCCCCTCCA 540

Qy         558 GGACTCCACCCGGCAGATCAGTCTAGTGACACAGATCCGGCTGCGAGATGGCCCCTCCA 617
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         541 GGACTCCACCCGGCAGATCAGTCTAGTGACACAGATCCGGCTGCGAGATGGCCCCTCCA 600

Qy         618 ACCCTCTCTGCTGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGCTCAGGC 677
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         601 ACCCTCTCTGCTGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGCTGTCAGGC 660

Qy         678 ACCCTCTCCCAGGAAGGCTTCCTGCCCCATCCTGCCACCCATCTATGACTTGAGCCAGGTCTGGT 737
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         661 ACCTTCTCCCAGGAAGGCCTTCCTGCCCACCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy         738 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 797
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         721 CCGGGTGTCCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy         798 GATGAAGTGGACTGGAGTAGAACTGAGGACAAGAGTGGAGTCGACGTGAGTTCCTGGGAGTCTCC 857
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         781 GATGAAGTGGACTGAGTAGAACTGAGGACAAGAGTGGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy         858 AGAGATGGGGCCTGAGGGCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 917
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         841 AGAGATGGGGCCTGAGGGCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy         918 AATGGCAGCCTGAGCACAGCAAGCGTAGGCCCCTTAATAAACCCTGTTGGATAAGCCAA 972
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         901 AATGGCAGCCTGAGCACACGTAGGCCCCTTAATAAACACCCTGTTGGATAAGCCAA 955

RESULT 8
AAF72375
ID   AAF72375 standard; cDNA; 960 BP.
XX
AC   AAF72375;
XX
DT   24-APR-2001  (first entry)
XX
DE   Human PRO232 cDNA.
XX
KW   Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
KW   antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
KW   antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
KW   antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes;
KW   ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
KW   ischaemia; inflammation; expressed sequence tag; EST; ss.
XX
OS   Homo sapiens.
XX
PN   WO200104311-A1.
XX
PD   18-JAN-2001.
XX
PF   22-FEB-2000;  2000WO-US004414.
XX
PR   07-JUL-1999;   99US-0143048P.
PR   26-JUL-1999;   99US-0145698P.
PR   28-JUL-1999;   99US-0146222P.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.

Query Match 98.1%; Score 953.4; DB 6; Length 960;
Best Local Similarity 99.9%; Pred. No. 1.8e-208;
Matches 954; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy   18 GTGCTTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCCAGGCACTGCCCTGCTGTGCTA   77
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Db    1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCCAGGCACTGCCCTGCTGTGCTA   60

Qy   78 CTCCTGCAAAGCCAGGTGAGCAAGAGGACTGCCTGCAGGTGAGAACTGCACCCAGCT  137
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Db   61 CTCCTGCAAAGCCAGGTGAGCAAGAGGACTGCCTGCAGGTGAGAACTGCACCCAGCT  120

Qy  138 GGGGGAGCAGTGCTGGACCGCCGCATCCGCCGCAGTTGGCCTCCTGACCGTCATCAGCAA  197
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121 GGGGGAGCAGTGCTGGACCGCCGCATCCGCCGCAGTTGGCCTCCTGACCGTCATCAGCAA  180

Qy  198 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGGTGGGCAAGAAGAACAT  257
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Db  181 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGGTGGGCAAGAAGAACAT  240

Qy  258 CACGTGCTGACACCGACTTGTGCAAGCCAGCGGGGCCATGCCCTGCAGCCGGCGCTGC  317
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241 CACGTGCTGTGACACCGACTTGTGCAAGCCAGCGGGGCCATGCCCTGCAGCCGGCGCTGC  300

Qy  318 CGCCATCCTTGCGCTGCTCCCTGCCACTGGGCTGTCTGGGGACCCGGCCAGCTATA  377
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  301 CGCCATCCTTGCGCTGCTCCCTGCCACTGGGCTGTCTGGGGACCCGGCCAGCTATA  360

Qy  378 GGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCCCAGGGCCTCTGTGCCAC  437
         |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  361 GGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCCCAGGGCCTCTGTGCCAC  420

Qy  438 TCCTCACAGACCTGGCCAGTGGGAGCCTGTCTCCTGGTTCCTGAGGGCACATCCTAACGCAA  497
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Db  421 TCCTCACAGACCTGGCCAGTGGGAGCCTGTCTCCTGGTTCCTGAGGGCACATCCTAACGCAA  480

Qy  498 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCCTGTCCCCACCCCTCCA  557
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Db  481 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCCTGTCCCCACCCCTCCA  540
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Qy  438 TCCTCACAGACCTGGCCAGTGGGAGCCTGTCTCCTGGTTCCTGAGGGCACATCCTAACGCAA  497
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Db  421 TCCTCACAGACCTGGCCAGTGGGAGCCTGTCTCCTGGTTCCTGAGGGCACATCCTAACGCAA  480

Qy  498 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCCTGTCCCCACCCCTCCA  557
         ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  481 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCCTGTCCCCACCCCTCCA  540

Qy  558 GGACTCCACCCGCCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCCTCCA  617
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Db  541 GGACTCCACCCGCCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCCTCCA  600

Qy  618 ACCCTCTGCTGCTGTGTTCCATGGCCCAGCATTCTCCACCCCTTAACCCTGTGCTCAGGC  677
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  601 ACCCTCTGCTGCTGTGTTCCATGGCCCAGCATTCTCCACCCCTTAACCCTGTGCTCAGGC  660

Qy  678 ACTTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTTGGT  737
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  661 ACCTTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTTGGT  720

Qy  738 CCGTGGTGGTCCCCCGCCACCCAGCAGGGGACAGGGACACTCAGGAGGCCCAGTAAAGGCTGA  797
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Db  721 CCGTGGTGGTCCCCCGCCACCCAGCAGGGGACAGGGACACTCAGGAGGCCCAGTAAAGGCTGA  780

Qy  798 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  857
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  840

Qy  858 AGAGATGGGGCCTGAGGCCTGAGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  917
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  841 AGAGATGGGGCCTGAGGCCTGAGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  900

Qy  918 AATGGCAGCTGAGCACAGGGTAGCCCCTTAATAAACACCTGTTGGATAAGCCCA  972
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Db  901 AATGGCAGCTGAGCACAGGGTAGCCCCTTAATAAACACCTGTTGGATAAGCCAA  955
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RESULT 9
ABK40257

ID   ABK40257 standard; cDNA; 960 BP.
XX
AC   ABK40257;
XX
DT   15-JUL-2002 (first entry)
XX
DE   cDNA encoding human PRO232 polypeptide.
XX
KW   Human; PRO; benign tumour; malignant tumour; lymphoid malignancy;
KW   leukaemia; neuronal disorder; stromal disorder; blastocoelic disorder;
KW   inflammatory disorder; immune disorder; angiogenic disorder;
KW   gene therapy; cytostatic; neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   WO200153486-A1.
XX
PD   26-JUL-2001.
XX
PF   11-FEB-2000; 2000WO-US003565.
XX
PR   08-MAR-1999; 99WO-US005028.
PR   11-MAR-1999; 99US-0123972P.
PR   11-MAY-1999; 99US-0134459P.
PR   02-JUN-1999; 99WO-US012252.
PR   22-JUN-1999; 99US-0140650P.
PR   22-JUN-1999; 99US-0140653P.
PR   20-JUL-1999; 99US-0144758P.
PR   26-JUL-1999; 99US-0145698P.
PR   28-JUL-1999; 99US-0146222P.
PR   17-AUG-1999; 99US-0149395P.
PR   31-AUG-1999; 99US-0151689P.
PR   01-SEP-1999; 99WO-US020111.

Qy   558 GGACTCCACCCGGCAGATCAGCTTCTAGTGACACAGATCCGCCTGCCGCAGATGGCCCCTCCA 617
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Db   541 GGACTCCACCCGGCAGATCAGCTTCTAGTGACACAGATCCGCCTGCCGCAGATGGCCCCTCCA 600

Qy   618 ACCCTCTGTCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTGCTCAGGC 677
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Db   601 ACCCTCTGTCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTGCTCAGGC 660

Qy   678 ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCATCTATGACTTGAGCCAGGTCTGGT 737
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Db   661 ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy   738 CCGTGGTGTCCCCCGCACCAGCAGGGGACAGCAGCCACTCAGGAGGGCCCAGTAAAGGCTGA 797
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Db   721 CCGTGGTGTCCCCCGCACCAGCAGGGGACAGCAGCCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy   798 GATGAAGTGGACTAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 857
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Db   781 GATGAAGTGGACTAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy   858 AGAGATGGGGCCTGGAGGGGCCAGGCCTCACATTCGTGGGGGCTCCCTG 917
          |||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AGAGATGGGGCCTGGAGGGGCCAGGCCTCACATTCGTGGGGGCTCCCTG 900

Qy   918 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAAACACCTGTTGGATAAGCCCA 972
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Db   901 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAAACACCTGTTGGATAAGCCAA 955

RESULT 10
ACA58909
ID   ACA58909 standard; cDNA; 960 BP.
XX
AC   ACA58909;
XX
DT   16-JUN-2003 (first entry)
XX
DE   Human PRO polynucleotide #4.
XX
KW   Human; PRO; gene; ss; secreted polypeptide; transmembrane polypeptide;
KW   pathological disorder; cardiac insufficiency disorder; protein secretion;
KW   pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
KW   skin disease; keratinocyte differentiation; epithelial cancer; tumour;
KW   lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
KW   cytostatic; cardiant; endocrine; antidiabetic; antiulcer; vulnerary.
KW   antiulcer; dermatological; vulnerary.
XX
OS   Homo sapiens.
XX
PN   US2002146709-A1.
XX
PD   10-OCT-2002.
XX
PF   18-JUL-2001; 2001US-00909088.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
PR   17-SEP-1997; 97US-0059121P.
PR   17-SEP-1997; 97US-0059122P.
PR   17-SEP-1997; 97US-0059184P.
PR   18-SEP-1997; 97US-0059263P.
PR   18-SEP-1997; 97US-0059266P.
PR   15-OCT-1997; 97US-0062125P.
PR   17-OCT-1997; 97US-0062285P.
PR   17-OCT-1997; 97US-0062287P.
PR   21-OCT-1997; 97US-0063486P.
PR   24-OCT-1997; 97US-0062814P.
PR   24-OCT-1997; 97US-0062816P.
PR   24-OCT-1997; 97US-0063045P.
PR   24-OCT-1997; 97US-0063120P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063128P.
PR   27-OCT-1997; 97US-0063327P.
PR   27-OCT-1997; 97US-0063329P.
PR   28-OCT-1997; 97US-0063541P.
PR   28-OCT-1997; 97US-0063542P.
PR   28-OCT-1997; 97US-0063544P.
PR   28-OCT-1997; 97US-0063549P.
PR   28-OCT-1997; 97US-0063550P.
PR   29-OCT-1997; 97US-0063564P.
PR   29-OCT-1997; 97US-0063435P.
PR   29-OCT-1997; 97US-0063704P.
PR   29-OCT-1997; 97US-0063732P.
PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064248P.
PR   07-NOV-1997; 97US-0064809P.
PR   12-NOV-1997; 97US-0065186P.
PR   17-NOV-1997; 97US-0065846P.
PR   18-NOV-1997; 97US-0065693P.
PR   21-NOV-1997; 97US-0066120P.
PR   21-NOV-1997; 97US-0066164P.
PR   24-NOV-1997; 97US-0066453P.
PR   24-NOV-1997; 97US-0066466P.
PR   24-NOV-1997; 97US-0066511P.
PR   24-NOV-1997; 97US-0066770P.
PR   24-NOV-1997; 97US-0066772P.
PR   10-SEP-1998; 98WO-US018824.
PR   14-SEP-1998; 98WO-US019177.
PR   16-SEP-1998; 98WO-US019330.
PR   17-SEP-1998; 98WO-US019437.
PR   01-DEC-1998; 98WO-US025108.
PR   08-SEP-1999; 99WO-US205594.
PR   13-SEP-1999; 99WO-US220944.
PR   15-SEP-1999; 99WO-US221090.
PR   15-SEP-1999; 99WO-US022547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
PR   30-NOV-1999; 99WO-US028313.
PR   01-DEC-1999; 99WO-US028301.
PR   02-DEC-1999; 99WO-US028564.
PR   02-DEC-1999; 99WO-US028565.
PR   16-DEC-1999; 99WO-US030095.
PR   20-DEC-1999; 99WO-US030911.
PR   20-DEC-1999; 99WO-US030999.
PR   05-JAN-2000; 2000WO-US000219.
PR   11-FEB-2000; 2000WO-US003565.
PR   22-FEB-2000; 2000WO-US004414.
PR   24-FEB-2000; 2000WO-US005004.
PR   02-MAR-2000; 2000WO-US005841.
PR   20-MAR-2000; 2000WO-US007377.
PR   30-MAR-2000; 2000WO-US008439.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   28-JUL-2000; 2000WO-US020710.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00665350.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI   Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI   Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI   Williams PM, Wood WI;
XX
DR   WPI; 2003-328338/31.
DR   P-PSDB; ABU71593.
XX

```
PT  Isolated nucleic acid useful for e.g., treating pathological disorders
PT  encodes a secreted or transmembrane protein.
XX
PS  Claim 2; Fig 8; 473pp; English.
XX
CC  The invention relates to human PRO polypeptides (secreted or
CC  transmembrane polypeptides) and the polynucleotides encoding them. The
CC  PRO polypeptides and polynucleotides can be used in treating pathological
CC  disorders and tumours, in therapeutic treatment of cardiac insufficiency
CC  disorders and in therapeutic treatment of disorders involving protein
CC  secretion by the pancreas, including diabetes. They can also be used in
CC  treating disorders associated with the preservation and maintenance of
CC  gastrointestinal mucosa and the repair of acute and chronic mucosal
CC  lesions, and skin diseases associated with abnormal keratinocyte
CC  differentiation (e.g., psoriases, epithelial cancers such as lung
CC  squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).
CC  The sequences can be used as molecular markers for protein
CC  electrophoresis purposes and can be utilised in protein-protein binding
CC  assays, biochemical screening assays, immunoassays and cell-based assays.
CC  This sequence represents a human PRO polynucleotide of the invention
XX
SQ  Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match        98.1%;   Score 953.4;   DB 7;   Length 960;
Best Local Similarity   99.9%;   Pred. No. 1.8e-208;
Matches  954;   Conservative  0;   Mismatches  1;   Indels  0;   Gaps  0;

Qy   18 GCTGCTTGCCTGTTGATGGCAGGCTTGGCCCTGCCAGGCACTGCCCTGCTGCTA 77
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Db    1 GCTGCTTGCCTGTTGATGGCAGGCTTGGCCCTGCCAGGCACTGCCCTGCTGCTA 60

Qy   78 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 137
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy  138 GGGGGAGCAGTGTCTGGACCGCGCATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA 197
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121 GGGGGAGCAGTGTCTGGACCGCGCATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy  198 AGGCTGCAGCTTGAACTGCCTGGATGACTCACAGGAGACTACTACGTGGGCAAGAAGAACAT 257
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Db  181 AGGCTGCAGCTTGAACTGCCTGGATGACTCACAGGAGACTACTACGTGGGCAAGAAGAACAT 240

Qy  258 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCCAGCCGGCTGC 317
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Db  241 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCCAGCCGGCTGC 300

Qy  318 CGCCATCCTTGCGTGCTCCCTGCACTCGGCCTGCTGCTCTCGGGGACCCGGCCAGCTATA 377
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Db  301 CGCCATCCTTGCGTGCTCCCTGCACTCGGCCTGCTGCTCTCGGGGACCCGGCCAGCTATA 360

Qy  378 GGCTCCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTCTGTGCCAC 437
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Db  361 GGCTCCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTCTGTGCCAC 420

Qy  438 TCCTCACAGACCTGGCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 497
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  421 TCCTCACAGACCTGGCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 480

Qy  498 GTCTGACCATGTATGTCTGCACCCCGAGATCAGTCAGTGACACAGATCCGCCTGAGATGGCCCTCTCCA 557
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  481 GTCTGACCATGTATGTCTGCACCCCGAGATCAGTCAGTGACACAGATCCGCCTGAGATGGCCCTCTCCA 540

Qy  558 GGACTCCACCCGGCCAGATACAGTCTCATGGCCAGCATTCCACCCTTGTGCTCAGGC 617
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Db  541 GGACTCCACCCGGCCAGATACAGTCTCATGGCCAGCATTCCACCCTTGTGCTCAGGC 600

Qy  618 ACCCTCTGCTGCTGTTCCATGGCCAGCATTCCCACCCTTAACCCTGTGCTCAGGC 677
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Db  601 ACCCTCTGCTGCTGTTCCATGGCCAGCATTCCCACCCTTAACCCTGTGCTCAGGC 660

Qy  678 ACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 737
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Db  661 ACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy  738 CCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAGGGGACAGGCACTCAGGAGGGGACAGGCACTCAGTAAAGGCTGA 797
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Db  721 CCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAGGGGACAGGCACTCAGTAAAGGCTGA 780

Qy  798 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTTCCTGGGAGTTCTC 857
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Db  781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTTCCTGGGAGTTCTC 840

Qy  858 AGAGATGGGCCTGGAGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 917
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  841 AGAGATGGGCCTGGAGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy  918 AATGGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 972
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Db  901 AATGGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955

RESULT 11
ACA58306
ID  ACA58306 standard; cDNA; 960 BP.
XX
AC  ACA58306;
XX
DT  10-JUN-2003  (first entry)
XX
DE  cDNA encoding human PRO polypeptide #4.
XX
KW  Human; secreted and transmembrane protein; PRO polypeptide; cancer;
KW  Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic;
KW  neuroprotective; gene; ss.
XX
OS  Homo sapiens.
XX
PN  US2002192659-A1.
XX
PD  19-DEC-2002.
XX
PF  10-JUL-2001; 2001US-00902853.
XX
PR  17-SEP-1997;  97US-0059113P.
PR  17-SEP-1997;  97US-0059115P.
PR  17-SEP-1997;  97US-0059117P.
PR  17-SEP-1997;  97US-0059119P.
PR  17-SEP-1997;  97US-0059121P.
PR  17-SEP-1997;  97US-0059122P.
PR  17-SEP-1997;  97US-0059184P.
PR  18-SEP-1997;  97US-0059263P.
PR  18-SEP-1997;  97US-0059266P.
PR  15-OCT-1997;  97US-0062125P.
PR  17-OCT-1997;  97US-0062285P.
PR  17-OCT-1997;  97US-0062287P.
PR  21-OCT-1997;  97US-0063486P.
PR  24-OCT-1997;  97US-0062814P.
PR  24-OCT-1997;  97US-0062816P.
PR  24-OCT-1997;  97US-0063045P.
PR  24-OCT-1997;  97US-0063120P.
PR  24-OCT-1997;  97US-0063121P.
PR  24-OCT-1997;  97US-0063127P.
PR  24-OCT-1997;  97US-0063128P.
PR  27-OCT-1997;  97US-0063327P.
PR  27-OCT-1997;  97US-0063329P.
PR  28-OCT-1997;  97US-0063541P.
PR  28-OCT-1997;  97US-0063422P.
PR  28-OCT-1997;  97US-0063564P.
PR  28-OCT-1997;  97US-0063544P.
PR  28-OCT-1997;  97US-0063549P.
PR  28-OCT-1997;  97US-0063550P.
PR  29-OCT-1997;  97US-0063435P.
PR  29-OCT-1997;  97US-0063704P.
PR  29-OCT-1997;  97US-0063732P.
PR  29-OCT-1997;  97US-0063734P.
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PR	97US-0063735P; 29-OCT-1997;
PR	97US-0063738P; 29-OCT-1997;
PR	97US-0064215P; 29-OCT-1997;
PR	97US-0063870P; 31-OCT-1997;
PR	97US-0064103P; 31-OCT-1997;
PR	97US-0064248P; 03-NOV-1997;
PR	97US-0064809P; 07-NOV-1997;
PR	97US-0065186P; 12-NOV-1997;
PR	97US-0065846P; 17-NOV-1997;
PR	97US-0065693P; 18-NOV-1997;
PR	97US-0066120P; 21-NOV-1997;
PR	97US-0066364P; 21-NOV-1997;
PR	97US-0066453P; 24-NOV-1997;
PR	97US-0064466P; 24-NOV-1997;
PR	97US-0066511P; 24-NOV-1997;
PR	97US-0066770P; 24-NOV-1997;
PR	97US-0066772P; 24-NOV-1997;
PR	98WO-US018824; 10-SEP-1998;
PR	98WO-US019177; 14-SEP-1998;
PR	98WO-US019330; 16-SEP-1998;
PR	98WO-US019437; 17-SEP-1998;
PR	98WO-US025108; 01-DEC-1998;
PR	99WO-US020594; 08-SEP-1999;
PR	99WO-US020944; 13-SEP-1999;
PR	99WO-US021090; 15-SEP-1999;
PR	99WO-US021547; 15-SEP-1999;
PR	99WO-US023089; 05-OCT-1999;
PR	99WO-US028214; 29-NOV-1999;
PR	99WO-US028313; 30-NOV-1999;
PR	99WO-US028301; 01-DEC-1999;
PR	99WO-US028564; 02-DEC-1999;
PR	99WO-US028565; 02-DEC-1999;
PR	99WO-US030095; 16-DEC-1999;
PR	99WO-US030911; 20-DEC-1999;
PR	99WO-US030999; 20-DEC-1999;
PR	2000WO-US000219; 05-JAN-2000;
PR	2000WO-US003565; 11-FEB-2000;
PR	2000WO-US004414; 22-FEB-2000;
PR	2000WO-US005004; 24-FEB-2000;
PR	2000WO-US005841; 02-MAR-2000;
PR	2000WO-US007377; 20-MAR-2000;
PR	2000WO-US008439; 30-MAR-2000;
PR	2000WO-US014042; 22-MAY-2000;
PR	2000WO-US015264; 02-JUN-2000;
PR	2000WO-US020710; 28-JUL-2000;
PR	2000WO-US023328; 24-AUG-2000;
PR	2000US-00665350; 18-SEP-2000;
XX	
PA	(GETH) GENENTECH INC.
XX	
PI	Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI	Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI	Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI	Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI	Williams PM, Wood WI;
XX	
DR	WPI; 2003-361832/34.
DR	P-PSDB; ABU71448.
XX	
PT	New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or PRO1868, useful in molecular biology, chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy.
XX	
PS	Claim 2; Fig 8; 474pp; English.
XX	
CC	The present invention relates to the isolation of novel human secreted and transmembrane proteins (PRO polypeptides), and the polynucleotide sequences encoding them. The polynucleotide sequences are useful in molecular biology, as hybridisation probes, in chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy. The polynucleotide sequences may also be used in preparing PRO polypeptides by recombinant techniques, and in generating either transgenic animals or knock-out animals which, in turn, are useful in the development and

CC   screening of therapeutically useful reagents. The PRO polypeptides or
CC   their antibodies are useful in preparing a medicament for treating a
CC   condition responsive to the polypeptide or antibody, such as cancer,
CC   Alzheimer's disease or ischaemia, and in various diagnostic assays. The
CC   present sequence encodes a human PRO polypeptide of the invention

```
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             98.1%;  Score 953.4;  DB 7;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 1.8e-208;
Matches  954;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy         18 GCTGCTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 77
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Db          1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 60

Qy         78 CTCCTGCAAAGCCAGGTGAGCAACGAGACTGCTGCCAGGTGGAGAACTGCACCCAGCT 137
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTCCTGCAAAGCCAGGTGAGCAACGAGACTGCTGCCAGGTGGAGAACTGCACCCAGCT 120

Qy        138 GGGGGAGCAGTGCTGCTGGACCGCCGGCATCCGCGGCCAGTTGGCCTCCTGACCGTCATCAGCAA 197
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GGGGGAGCAGTGCTGCTGGACCGCCGGCATCCGCGGCCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy        198 AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACTACGTGGGCAAGAGAGAACAT 257
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Db        181 AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACTACGTGGGCAAGAGAGAACAT 240

Qy        258 CACGTGCTGTGACACCGACTTGTGCAACGGCCAGCGGGCCCATGCCCTGCAGCCGGCTGC 317
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Db        241 CACGTGCTGTGACACCGACTTGTGCAACGGCCAGCGGGCCCATGCCCTGCAGCCGGCTGC 300

Qy        318 CGCCATCCTTGCGCTGCTGCCCTGCACTCGGCCTGCTCTGGTTCGGCTGGGAGCCCAGTATA 377
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Db        301 CGCCATCCTTGCGCTGCTGCCCTGCACTCGGCCTGCTCTGGTTCGGCTGGGAGCCCAGTATA 360

Qy        378 GGCTCTGGGGGCCCGCTGCAGCCCACACTGGGTGTGGTTGCCCCAGGCTCTGTGCCAC 437
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Db        361 GGCTCTGGGGGCCCGCTGCAGCCCACACTGGGTGTGGTTGCCCCAGGCTCTGTGCCAC 420

Qy        438 TCCTCACAGACCTGGCCCAGTGGAGCTGTCTCGGTTCCTGAGGCCACATCCTAACGCAA 497
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TCCTCACAGACCTGGCCCAGTGGAGCTGTCTCGGTTCCTGAGGCCACATCCTAACGCAA 480

Qy        498 GTCTGACCATGTATGTCTGCACCCCTGTCCCCCACCCTGACCCTCCATGGCCCTCTCCA 557
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Db        481 GTCTGACCATGTATGTCTGCACCCCTGTCCCCCACCCTGACCCTCCATGGCCCTCTCCA 540

Qy        558 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 617
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 600

Qy        618 ACCCTCTGCTGTTTCCATGGCCCAGCATTCCACCCTTAACCCTGTGCTCAGGC 677
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 ACCCTCTGCTGTTTCCATGGCCCAGCATTCCACCCTTAACCCTGTGCTCAGGC 660

Qy        678 ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCCATCATGACTTGAGCCAGGTCTGGT 737
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Db         *661 ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCCATCATGACTTGAGCCAGGTCTGGT 720

Qy        738 CCGTGGTGTCCCCAGCACCAGGGGACAGGGACACTCAGGAGGGCCAGTAAAGGCTGA 797
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Db        721 CCGTGGTGTCCCCAGCACCAGGGGACAGGGACACTCAGGAGGGCCAGTAAAGGCTGA 780

Qy        798 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTGGACGTGAGTTCCTGGGAGTCTCC 857
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Db        781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTGGACGTGAGTTCCTGGGAGTCTCC 840

Qy        858 AGAGATGGGGCCTGGAGGGCCTGGAGGGGGCCAGGGCCTCACATTCGTGGGGGTCCCTG 917
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Db        841 AGAGATGGGGCCTGGAGGGCCTGGAGGGGGCCAGGGCCTCACATTCGTGGGGGTCCCTG 900

Qy        918 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 972
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Db          901 AATGCAGCCTGAGCACAGCGTAGGCCGCCTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 12
ACA60013
ID   ACA60013 standard; cDNA; 960 BP.
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AC   ACA60013;
XX
DT   12-JUN-2003 (first entry)
XX
DE   Human cDNA for secreted/transmembrane protein PRO232.
XX
KW   Human; ss; gene; secreted protein; transmembrane protein; PRO;
KW   gene therapy; chromosome identification; chromosome marker.
XX
OS   Homo sapiens.
XX
XX
PN   US2003003530-A1.
XX
PD   02-JAN-2003.
XX
XX
PF   11-JUL-2001; 200US-00904011.
XX
PR   17-SEP-1997; 97US-0059113P.   PR   24-NOV-1997; 97US-0066772P.
PR   17-SEP-1997; 97US-0059115P.   PR   10-SEP-1998; 98WO-US018824.
PR   17-SEP-1997; 97US-0059117P.   PR   14-SEP-1998; 98WO-US019177.
PR   17-SEP-1997; 97US-0059119P.   PR   16-SEP-1998; 98WO-US019330.
PR   17-SEP-1997; 97US-0059121P.   PR   17-SEP-1998; 98WO-US019437.
PR   17-SEP-1997; 97US-0059122P.   PR   01-DEC-1998; 98WO-US025108.
PR   17-SEP-1997; 97US-0059184P.   PR   08-SEP-1999; 99WO-US020594.
PR   18-SEP-1997; 97US-0059263P.   PR   13-SEP-1999; 99WO-US020944.
PR   18-SEP-1997; 97US-0059266P.   PR   15-SEP-1999; 99WO-US021090.
PR   15-OCT-1997; 97US-0062125P.   PR   15-SEP-1999; 99WO-US021547.
PR   17-OCT-1997; 97US-0062285P.   PR   05-OCT-1999; 99WO-US023089.
PR   17-OCT-1997; 97US-0062287P.   PR   29-NOV-1999; 99WO-US028214.
PR   21-OCT-1997; 97US-0063486P.   PR   30-NOV-1999; 99WO-US028313.
PR   24-OCT-1997; 97US-0062814P.   PR   01-DEC-1999; 99WO-US028301.
PR   24-OCT-1997; 97US-0062816P.   PR   02-DEC-1999; 99WO-US028564.
PR   24-OCT-1997; 97US-0063045P.   PR   02-DEC-1999; 99WO-US028565.
PR   24-OCT-1997; 97US-0063120P.   PR   16-DEC-1999; 99WO-US030095.
PR   24-OCT-1997; 97US-0063121P.   PR   20-DEC-1999; 99WO-US030911.
PR   24-OCT-1997; 97US-0063127P.   PR   20-DEC-1999; 99WO-US030999.
PR   24-OCT-1997; 97US-0063128P.   PR   05-JAN-2000; 2000WO-US000219.
PR   27-OCT-1997; 97US-0063327P.   PR   11-FEB-2000; 2000WO-US003565.
PR   27-OCT-1997; 97US-0063329P.   PR   22-FEB-2000; 2000WO-US004414.
PR   28-OCT-1997; 97US-0063541P.   PR   24-FEB-2000; 2000WO-US005004.
PR   28-OCT-1997; 97US-0063542P.   PR   02-MAR-2000; 2000WO-US005841.
PR   28-OCT-1997; 97US-0063544P.   PR   20-MAR-2000; 2000WO-US007377.
PR   28-OCT-1997; 97US-0063549P.   PR   30-MAR-2000; 2000WO-US008439.
PR   28-OCT-1997; 97US-0063550P.   PR   22-MAY-2000; 2000WO-US014042.
PR   28-OCT-1997; 97US-0063564P.   PR   02-JUN-2000; 2000WO-US015264.
PR   29-OCT-1997; 97US-0063435P.   PR   28-JUL-2000; 2000WO-US020710.
PR   29-OCT-1997; 97US-0063704P.   PR   24-AUG-2000; 2000WO-US023328.
PR   29-OCT-1997; 97US-0063732P.   PR   18-SEP-2000; 200US-0665350.
PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.   XX
PR   29-OCT-1997; 97US-0063738P.   PA   (GETH) GENENTECH INC.
PR   31-OCT-1997; 97US-0063215P.   XX
PR   31-OCT-1997; 97US-0063870P.   PI   Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PR   31-OCT-1997; 97US-0064103P.   PI   Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PR   03-NOV-1997; 97US-0064248P.   PI   Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PR   07-NOV-1997; 97US-0064809P.   PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PR   12-NOV-1997; 97US-0065186P.   PI   Williams PM, Wood WI;
PR   17-NOV-1997; 97US-0065846P.   XX
PR   18-NOV-1997; 97US-0056593P.   DR   WPI; 2003-329602/31.
PR   21-NOV-1997; 97US-0066120P.   DR   P-PSDB; ABU71894.
PR   21-NOV-1997; 97US-0066364P.   XX
PR   24-NOV-1997; 97US-0066453P.   PT   New transmembrane polypeptides and nucleic acids encoding the
PR   24-NOV-1997; 97US-0066466P.   PT   polypeptides, useful in gene therapy, in chromosome identification, as
PR   24-NOV-1997; 97US-0066511P.   PT   chromosome markers, in generating probes and in tissue typing.
PR   24-NOV-1997; 97US-0066770P.   XX
                                           PS   Claim 2; Fig 8; 484pp; English.
                                           XX
                                           XX
                                           CC   The invention relates to an isolated nucleic acid with at least 80%
                                           CC   nucleic acid sequence identity to a nucleotide sequence encoding one of
                                           CC   61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a
                                           CC   PRO protein extracellular domain. Also included are a vector comprising
                                           CC   the PRO nucleic acid, a host cell comprising the vector, producing a PRO
                                           CC   polypeptide (by culturing the host cell for the expression of the PRO
                                           CC   polypeptide, and recovering the PRO polypeptide from the cell culture),
                                           CC   an isolated PRO polypeptide (having at least 80% sequence identity to: (
                                           CC   a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino
                                           CC   acid sequence encoded by a nucleic acid molecule deposited with an ATCC
                                           CC   number (detailed in the specification); or (c) an extracellular domain of
                                           CC   a PRO polypeptide or to a PRO polypeptide lacking its associated signal
                                           CC   peptide), a chimaeric molecule comprising a PRO polypeptide of fused to a
                                           CC   heterologous amino acid sequence, an anti-PRO antibody, detecting a
                                           CC   PRO245 or PRO1868 in a sample suspected of containing the polypeptide,
                                           CC   linking a bioactive molecule to a cell expressing a PRO245 or PRO1868, and
                                           CC   modulating at least one biological activity of a cell expressing a PRO245
                                           CC   or PRO1868. Nucleic acids which encode PRO can be used to generate either
                                           CC   transgenic animals or knock-out animals which may be used in the
                                           CC   development and screening of therapeutically useful reagents. The nucleic
                                           CC   acids may also be used in gene therapy, in chromosome identification, as
                                           CC   chromosome markers, or in generating probes. The PRO polypeptides are
                                           CC   useful as molecular markers for protein electrophoresis, and the isolated
                                           CC   nucleic acids may be used for recombinantly expressing those markers. The

```
CC    PRO polypeptides and nucleic acids may also be used in tissue typing.
CC    Anti-PRO antibodies are useful in diagnostic assays for PRO, and in
CC    affinity purification of PRO from recombinant cell culture or natural
CC    sources. The present sequence encodes a PRO protein
XX
SQ    Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             98.1%;  Score 953.4;  DB 7;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 1.8e-208;
Matches  954;  Conservative   0;  Mismatches   0;  Indels   1;  Gaps   0;

Qy          18 GCTGCTTCCCCTGTTGATGGCAGGCTTGGCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 77
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db           1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 60

Qy          78 CTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 137
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          61 CTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy         138 GGGGGACAGTGCTGTGACCGCGGCATCCGCGCAGTTGCCTCCTGACCGTCATCAGCAA 197
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         121 GGGGGAGCAGTGCTGTGACCGCGGCATCCGCGCAGTTGCCTCCTGACCGTCATCAGCAA 180

Qy         198 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 257
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Db         181 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 240

Qy         258 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGCTGC 317
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Qy         318 CGGCCATCCTTGCGCTGCTGCTCCCTGCGGCTCGCCTGCTCTGGGGACACCGGCCAGCTATA 377
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         301 CGGCCATCCTTGCGCTGCTGCTCCCTGCGGCTCGCCTGCTCTGGGGACACCGGCCAGCTATA 360

Qy         378 GGCTCTGGGGGGGCCCCGTGCAGCCCACACTGGGTGTGGTGCCCAGGCCTTCTGTGCCAC 437
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Db         361 GGCTCTGGGGGGGCCCCGTGCAGCCCACACTGGGTGTGGTGCCCAGGCCTTCTGTGCCAC 420

Qy         438 TCCTCACAGACCTGGCCCAGTGGGAGCCTGTCTCTGGTTCCTGAGGCACATCCTAACGCAA 497
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         421 TCCTCACAGACCTGGCCCAGTGGGAGCCTGTCTCTGGTTCCTGAGGCACATCCTAACGCAA 480

Qy         498 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCACCCCTGACGTGGCCCTCTCCA 557
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         481 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCACCCCTGACGTGGCCCTCTCCA 540

Qy         558 GGACTCCCACCCAGCAGATCAGCTCTAGTGACACAGATCCGGCTGCAGAGATGCCCCTCCA 617
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         541 GGACTCCCACCCAGCAGATCAGCTCTAGTGACACAGATCCGGCTGCAGAGATGCCCCTCCA 600

Qy         618 ACCCTCTGCGTGTTTCCATGGCCCAGCAATTCTCACCCTTAACCGTGTCTGCTCAGGC 677
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         601 ACCCTCTGCGTGTTTCCATGGCCCAGCAATTCTCACCCTTAACCGTGTCTGCTCAGGC 660

Qy         678 ACCTCTTCCCCAGGAAGCTTCCTGCCACCATCTATGACTTGAGCCCAGGTCTGGT 737
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         661 ACCTCTTCTCCCCAGGAAGCTTCCTGCCACCATCTATGACTTGAGCCCAGGTCTGGT 720

Qy         738 CCGTGGTGTCCCCCGCACCCAGCAGGGACAGGGACACTGGAGACAAGAGTCGACGTGAGTTCCTGGGAGTCTGA 797
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         721 CCGTGGTGTCCCCCGCACCCAGCAGGGACAGGGACACTGGAGACAGCAAGAGTCGACGTGAGTTCCTGGGAGTCTGA 780

Qy         798 AGAGATGGGGCCTGAGGCCTGAGGAGGAAGGGGCCAGGGCCTCACATTCGTGGGGCTCCCTG 857
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         781 AGAGATGGGGCCTGAGGCCTGAGGAGGAAGGGGCCAGGGCCTCACATTCGTGGGGCTCCCTG 840

Qy         858 AGAGATGGGGCCTGAGGCCTGAGGAGGAAGGGGCCAGGGCCTCACATTCGTGGGGCTCCCTG 917
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         841 AGAGATGGGGCCTGAGGCCTGAGGAGGAAGGGGCCAGGGCCTCACATTCGTGGGGCTCCCTG 900

Qy         918 AATGGCAGCCTGAGCACAGCGTAGCCCTTAATAAACACCTGTTGGATAAGCCAA 972
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db   901 AATGGCAGCCTGAGCACAGCGTAGCCCTTAATAAACACCTGTTGGATAAGCCAA 955

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RESULT 13
ACD07413
ID   ACD07413 standard; cDNA; 960 BP.
XX
AC   ACD07413;
XX
DT   07-AUG-2003 (first entry)
XX
DE   Novel human secreted and transmembrane protein PRO232 cDNA.
XX
KW   Human; secreted and transmembrane protein; PRO; pharmaceutical;
KW   diagnostic; biosensor; bioreactor; Parkinson's disease;
KW   Alzheimer's disease; inflammation; nephritis; wound healing;
KW   nerve repair; collateral blood vessel formation; cancer;
KW   colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;
KW   cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;
KW   scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;
KW   infertility; gene therapy; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2002197671-A1.
XX
PD   26-DEC-2002.
XX
PF   17-JUL-2001; 2001US-00907824.
XX
PR   17-SEP-1997;  97US-0059113P.
PR   17-SEP-1997;  97US-0059115P.
PR   17-SEP-1997;  97US-0059117P.
PR   17-SEP-1997;  97US-0059119P.
PR   17-SEP-1997;  97US-0059121P.
PR   17-SEP-1997;  97US-0059122P.
PR   17-SEP-1997;  97US-0059184P.
PR   18-SEP-1997;  97US-0059263P.
PR   18-SEP-1997;  97US-0059266P.
PR   15-OCT-1997;  97US-0062125P.
PR   17-OCT-1997;  97US-0062285P.
PR   17-OCT-1997;  97US-0062287P.
PR   21-OCT-1997;  97US-0063486P.
PR   24-OCT-1997;  97US-0062814P.
PR   24-OCT-1997;  97US-0062816P.
PR   24-OCT-1997;  97US-0063045P.
PR   24-OCT-1997;  97US-0063120P.
PR   24-OCT-1997;  97US-0063121P.
PR   24-OCT-1997;  97US-0063127P.
PR   27-OCT-1997;  97US-0063128P.
PR   27-OCT-1997;  97US-0063327P.
PR   27-OCT-1997;  97US-0063329P.
PR   28-OCT-1997;  97US-0063541P.
PR   28-OCT-1997;  97US-0063542P.
PR   28-OCT-1997;  97US-0063544P.
PR   28-OCT-1997;  97US-0063549P.
PR   28-OCT-1997;  97US-0063550P.
PR   28-OCT-1997;  97US-0063564P.
PR   29-OCT-1997;  97US-0064435P.
PR   29-OCT-1997;  97US-0063704P.
PR   29-OCT-1997;  97US-0063732P.
PR   29-OCT-1997;  97US-0063734P.
PR   29-OCT-1997;  97US-0063735P.
PR   31-OCT-1997;  97US-0063738P.
PR   31-OCT-1997;  97US-0063870P.
PR   03-NOV-1997;  97US-0064103P.
PR   03-NOV-1997;  97US-0064248P.
PR   07-NOV-1997;  97US-0064809P.
PR   12-NOV-1997;  97US-0065186P.
PR   17-NOV-1997;  97US-0065846P.
PR   18-NOV-1997;  97US-0065593P.
PR   21-NOV-1997;  97US-0066120P.
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CC          as molecular weight markers, or for chromosome identification. The PRO
CC          genes are useful as hybridisation probes, or for screening libraries of
CC          human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC          therapy, particularly for replacing a defective gene. This sequence
CC          encodes a novel human secreted and transmembrane PRO polypeptide
XX
SQ          Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             98.1%;   Score 953.4;  DB 7;  Length 960;
Best Local Similarity   99.9%;   Pred. No. 1.8e-208;
Matches  954;  Conservative   0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy         18 GCTGCTTGCCCTGTTGATGGCAGGCTGGGCCCTGCCCTGCCCTGCTGTGCTA    77
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GCTGCTTGCCCTGTTGATGGCAGGCTGGGCCCTGCCCTGCCCTGCTGTGCTA    60

Qy         78 CTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT   137
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT   120

Qy        138 GGGGGAGCAGTGCTGGACCGGCGCGCATCCGCGCGCAGTTGGCCCTGCCTCATCAGCAA   197
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GGGGGAGCAGTGCTGGACCGGCGCGCATCCGCGCGCAGTTGGCCCTGCCTCATCAGCAA   180

Qy        198 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTGGGCAAGAAGAACAT   257
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTGGGCAAGAAGAACAT   240

Qy        258 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGCGGGCCCTGCAGCCGGCGTGC   317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGCGGGCCCTGCAGCCGGCGTGC   300

Qy        318 CGCCATCCTTGGCGCTGCCCTGCACTGGCTGTCTGGGGACCGGCCAGCTATA   377
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 CGCCATCCTTGGCGCTGCCCTGCACTGGCTGTCTGGGGACCGGCCAGCTATA   360

Qy        378 GGCTCTGGGGGGCGCCCCGCTGCAGCCCACACTGGGTGTGTGGCCCAGGCCTCTGTGCCAC   437
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 GGCTCTGGGGGGCGCCCCGCTGCAGCCCACACTGGGTGTGTGGCCCAGGCCTCTGTGCCAC   420

Qy        438 TCCTCAGACCTGGCCCAGTGGAGCCTTCCTGAGGCACATCCTAACGCAA   497
              |||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TCCTCAGACCTGGCCCAGTGGAGCCTTCCTGAGGCACATCCTAACGCAA   480

Qy        498 GTCTGACCATGTATGTCTGCACCCCGTCCCCACCCTGACCCTCCACCCTCCA   557
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 GTCTGACCATGTATGTCTGCACCCCGTCCCCACCCTGACCCTCCACCCTCCA   540

Qy        558 GGACTCCACCCGGCAGATCAGTCTAGTGACACAGATCCGCCTGCAGATGGCCCCCA   617
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 GGACTCCACCCGGCAGATCAGTCTAGTGACACAGATCCGCCTGCAGATGGCCCCCA   600

Qy        618 ACCCTCTCGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC   677
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 ACCCTCTCGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC   660

Qy        678 ACCTCTTCCCCAGGAGGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT   737
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 ACCTCTTCCCCAGGAGGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT   720

Qy        738 CCGTGGTGTCCCCGCCACCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCCAA   797
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 CCGTGGTGTCCCCGCCACCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA   780

Qy        798 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC   857
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC   840

Qy        858 AGAGATGGGGGCCTGGAGGCCTGGAGGGGCCTGGAGGGGCCTCACATTCGTGGGGCTCCCTG   917
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        841 AGAGATGGGGGCCTGGAGGCCTGGAGGGGCCTGGAGGGGCCTCACATTCGTGGGGCTCCCTG   900

Qy        918 AATGGCAGCCTGAGCACACGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCA   972
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PR    21-NOV-1997;  97US-0066364P.
PR    24-NOV-1997;  97US-0066453P.
PR    24-NOV-1997;  97US-0066466P.
PR    24-NOV-1997;  97US-0066511P.
PR    24-NOV-1997;  97US-0066770P.
PR    24-NOV-1997;  97US-0066772P.
PR    10-SEP-1998;  98WO-US018824.
PR    14-SEP-1998;  98WO-US019177.
PR    16-SEP-1998;  98WO-US019330.
PR    17-SEP-1998;  98WO-US019437.
PR    01-DEC-1998;  98WO-US025108.
PR    08-SEP-1999;  99WO-US020594.
PR    13-SEP-1999;  99WO-US020944.
PR    15-SEP-1999;  99WO-US021090.
PR    15-SEP-1999;  99WO-US021547.
PR    05-OCT-1999;  99WO-US023089.
PR    29-NOV-1999;  99WO-US028214.
PR    30-NOV-1999;  99WO-US028313.
PR    01-DEC-1999;  99WO-US028301.
PR    02-DEC-1999;  99WO-US028564.
PR    02-DEC-1999;  99WO-US028565.
PR    16-DEC-1999;  99WO-US030095.
PR    20-DEC-1999;  99WO-US030911.
PR    20-DEC-1999;  99WO-US030999.
PR    05-JAN-2000;  2000WO-US000219.
PR    11-FEB-2000;  2000WO-US003565.
PR    22-FEB-2000;  2000WO-US004414.
PR    24-FEB-2000;  2000WO-US005004.
PR    02-MAR-2000;  2000WO-US005841.
PR    20-MAR-2000;  2000WO-US007377.
PR    30-MAR-2000;  2000WO-US008439.
PR    22-MAY-2000;  2000WO-US014042.
PR    02-JUN-2000;  2000WO-US015264.
PR    28-JUL-2000;  2000WO-US020710.
PR    24-AUG-2000;  2000WO-US023328.
PR    18-SEP-2000;  2000US-00665350.
XX
PA  (GETH )  GENENTECH INC.
XX
PI  Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI  Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,  Goddard A;
PI  Godowski PJ,  Grimaldi JC,  Gurney AL,  Hillan KJ,  Kljavin IJ;
PI  Mather JP,  Pan J,  Paoni NF,  Roy MA,  Stewart TA,  Tumas D;
PI  Williams PM,  Wood WI;
XX
DR  WPI; 2003-370793/35.
DR  P-PSDB; AB001777.
XX
PT  New genes and secreted and transmembrane polypeptides (e.g. PRO245 or
PT  PRO335), useful for treating or diagnosing e.g. Alzheimer's disease,
PT  cancers, hemorrhage, rheumatoid arthritis, diabetes, cirrhosis, ischemia
PT  or strokes.
XX
PS  Claim 2;  Fig 8;  482pp;  English.
XX
CC  The invention describes a new isolated nucleic acid molecule comprising
CC  the full length coding sequence of the DNA deposited with the American
CC  Type Culture Collection (e.g. ATCC Deposit No. 209258) ,or a sequence
CC  with at least 80% identity to a DNA encoding a PRO polypeptide comprising
CC  any of 61 sequences having 164-1119 amino acids fully defined in the
CC  specification. The PRO polypeptides or polynucleotides are useful as
CC  pharmaceuticals, diagnostics, biosensors or bioreactors. These are
CC  particularly useful for detecting or treating e.g. Parkinson's disease,
CC  Alzheimer's disease, inflammation, nephritis, wound healing, nerve
CC  repair, collateral blood vessel formation, cancers (e.g. colorectal
CC  cancer), haemorrhage (or reduce risk for haemorrhage), rheumatoid
CC  arthritis, diabetes, cirrhosis of the liver, fibrosis of the lungs,
CC  restenosis, dermal fibrotic conditions (e.g. keloids or scarring),
CC  ischaemia, strokes, hypertension, heart attacks, atherosclerosis, or
CC  infertility in mammals (e.g. humans, dogs, cats, cattle, horses, sheep,
CC  pigs, goats, or rabbits) The PRO polypeptides are useful as targets for
CC  therapeutic intervention in these diseases, and diagnostic determination
CC  of the presence of these diseases. The PRO polypeptides are also useful
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       |||||||||||||||||||||||||||||||||||||||||||||||||||
  901  AATGGCAGCCTCGAGCACCAGCGGCGTAGGCCCCTTAATAAACACCTGTTGATAAGCCAA  955
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RESULT 14
ABX71461
ID   ABX71461 standard; cDNA; 960 BP.
XX
AC   ABX71461;
XX
DT   10-MAR-2003 (first entry)
XX
DE   Human cDNA encoding secreted/transmembrane protein PRO232.
XX
KW   Human; PRO; secreted protein; transmembrane protein; enterocolitis;
KW   gastrointestinal ulceration; skin disease; ss; gene;
KW   abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW   squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
KW   amyotrophic lateral sclerosis; inflammatory disease;
KW   rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
KW   atherosclerosis; cardiac injury; infertility; birth defect;
KW   premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
KW   diabetic complication; wound repair.
XX
OS   Homo sapiens.
XX
PN   US2002132240-A1.
XX
PD   19-SEP-2002.
XX
PF   18-JUL-2001; 2001US-00909320.
XX
PR   17-SEP-1997; 97US-0059113P.   PR   18-NOV-1997; 97US-0055693P.
PR   17-SEP-1997; 97US-0059115P.   PR   21-NOV-1997; 97US-0066120P.
PR   17-SEP-1997; 97US-0059117P.   PR   21-NOV-1997; 97US-0063364P.
PR   17-SEP-1997; 97US-0059119P.   PR   24-NOV-1997; 97US-0066453P.
PR   17-SEP-1997; 97US-0059121P.   PR   24-NOV-1997; 97US-0066466P.
PR   17-SEP-1997; 97US-0059122P.   PR   24-NOV-1997; 97US-0066511P.
PR   17-SEP-1997; 97US-0059184P.   PR   24-NOV-1997; 97US-0066770P.
PR   18-SEP-1997; 97US-0059263P.   PR   24-NOV-1997; 97US-0065772P.
PR   18-SEP-1997; 97US-0059266P.   PR   10-SEP-1998; 98WO-US018824.
PR   15-OCT-1997; 97US-0062125P.   PR   14-SEP-1998; 98WO-US019177.
PR   17-OCT-1997; 97US-0062285P.   PR   16-SEP-1998; 98WO-US019330.
PR   17-OCT-1997; 97US-0062287P.   PR   17-SEP-1998; 98WO-US019437.
PR   21-OCT-1997; 97US-0063486P.   PR   01-DEC-1998; 98WO-US025108.
PR   24-OCT-1997; 97US-0062814P.   PR   08-SEP-1999; 99WO-US020594.
PR   24-OCT-1997; 97US-0062816P.   PR   13-SEP-1999; 99WO-US020944.
PR   24-OCT-1997; 97US-0063045P.   PR   15-SEP-1999; 99WO-US021090.
PR   24-OCT-1997; 97US-0063120P.   PR   15-SEP-1999; 99WO-US021547.
PR   24-OCT-1997; 97US-0063121P.   PR   05-OCT-1999; 99WO-US023089.
PR   24-OCT-1997; 97US-0063127P.   PR   29-NOV-1999; 99WO-US028214.
PR   24-OCT-1997; 97US-0063128P.   PR   30-NOV-1999; 99WO-US028301.
PR   24-OCT-1997; 97US-0063327P.   PR   01-DEC-1999; 99WO-US028301.
PR   27-OCT-1997; 97US-0063329P.   PR   02-DEC-1999; 99WO-US028564.
PR   28-OCT-1997; 97US-0063541P.   PR   02-DEC-1999; 99WO-US028565.
PR   28-OCT-1997; 97US-0063542P.   PR   16-DEC-1999; 99WO-US030095.
PR   28-OCT-1997; 97US-0063544P.   PR   20-DEC-1999; 99WO-US030911.
PR   28-OCT-1997; 97US-0063549P.   PR   20-DEC-1999; 99WO-US030999.
PR   28-OCT-1997; 97US-0063550P.   PR   06-JAN-2000; 2000WO-US000219.
PR   28-OCT-1997; 97US-0063564P.   PR   11-FEB-2000; 2000WO-US003565.
PR   29-OCT-1997; 97US-0064435P.   PR   22-FEB-2000; 2000WO-US004414.
PR   29-OCT-1997; 97US-0063704P.   PR   24-FEB-2000; 2000WO-US005004.
PR   29-OCT-1997; 97US-0063732P.   PR   20-MAR-2000; 2000WO-US005841.
PR   29-OCT-1997; 97US-0063734P.   PR   20-MAR-2000; 2000WO-US007377.
PR   29-OCT-1997; 97US-0063735P.   PR   30-MAR-2000; 2000WO-US008439.
PR   29-OCT-1997; 97US-0063738P.   PR   22-MAY-2000; 2000WO-US014042.
PR   29-OCT-1997; 97US-0064215P.   PR   02-JUN-2000; 2000WO-US015264.
PR   31-OCT-1997; 97US-0063870P.   PR   28-JUL-2000; 2000WO-US020710.
PR   31-OCT-1997; 97US-0064103P.   PR   24-AUG-2000; 2000WO-US023328.
PR   03-NOV-1997; 97US-0064248P.   PR   18-SEP-2000; 2000US-00665350.
PR   07-NOV-1997; 97US-0064809P.   XX
PR   12-NOV-1997; 97US-0051186P.   PA   (GETH) GENENTECH INC.
PR   17-NOV-1997; 97US-0065846P.   XX
```

PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong W,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-147434/14.
DR   P-PSDB; ABU54350.
XX
PT   New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
PT   treating inflammatory diseases, organ failure, atherosclerosis, cardiac
PT   injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
PT   disease.
XX
PS   Claim 2; Fig 8; 473pp; English.
XX
CC   The invention relates to an isolated PRO polypeptide having at least 80%
CC   amino acid sequence identity to: (a) any one of 61 fully defined amino
CC   acid sequences given in the specification (appearing as ABU4347-
CC   ABU54407); (b) an amino acid sequence encoded by the nucleotide sequence
CC   deposited under American Type Culture Collection (accession numbers
CC   listed in the specification); (c) any one of the PRO sequences which
CC   lacks its associated signal peptide; (d) an extracellular domain of the
CC   PRO polypeptide with its associated signal peptide; or (e) an
CC   extracellular domain of the PRO polypeptide which lacks its associated
CC   signal peptide. Also include are the nucleic acids encoding the PRO
CC   polypeptides, vectors, host cells and anti-PRO antibodies. The PRO
CC   polypeptides and nucleic acids are useful in diagnosing or treating
CC   enterocolitis, gastrointestinal ulceration, skin diseases associated with
CC   abnormal keratinocyte differentiation, e.g. psoriasis or epithelial
CC   cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's
CC   disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g.

CC   rheumatoid arthritis, asthma or multiple sclerosis, organ failure,
CC   atherosclerosis, cardiac injury, infertility, birth defects, premature
CC   aging, AIDS, cancer, diabetic complications, or mutations in general. The
CC   polypeptides are also useful for wound repair and associated therapies
CC   concerned with re-growth of tissue. The nucleotide sequences may be used
CC   as hybridisation probes in chromosome and gene mapping, or in generating PRO
CC   antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
CC   polypeptides. in assays to identify other proteins or molecules involved
CC   in binding reaction, to generate transgenic animals or knockout animals,
CC   which in turn are useful in the development and screening of
CC   therapeutically useful reagents, for chromosome identification, and
CC   tissue typing. The PRO polypeptides and nucleic acid molecules are also
CC   useful in gene therapy, and as molecular weight markers for protein
CC   electrophoresis purposes. The anti-PRO antibodies may be used in
CC   diagnostic assays for PRO, or for the affinity purification of PRO from
CC   recombinant cell culture or natural sources. The present sequence encodes
CC   a PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   98.1%;   Score 953.4;   DB 7;   Length 960;
Best Local Similarity   99.9%;
Matches 954;   Conservative   0;   Mismatches   0;   Indels   1;   Gaps   0;

```
Qy      18 GCTGCTTGCCTGTTGATGCAGGCTTGGCCTGCCAGCCACTGCCCTGCTGTGCTA 77
           ||||||||||||||||||| |||||||||||||||||||||||||||||||||||
Db       1 GCTGCTTGCCTGTTGATGCAGCAGGCTTGGCCTGCCAGCCACTGCCCTGCTGTGCTA 60

Qy      78 CTCCTGCAAAGCCCAGGTGAGCAACGAGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 137
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61 CTCCTGCAAAGCCCAGGTGAGCAACGAGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy     138 GGGGGAGCAGTGCTGGACCCGCGCGATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA 197
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121 GGGGGAGCAGTGCTGGACCCGCGCGATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy     198 AGGCTGCAGCTTGAACTGCGTGATGACTCACACAGGACTACTACGGGGCAAGAAGAACAT 257
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181 AGGCTGCAGCTTGAACTGCGTGATGACTCACACAGGACTACTACGGGGCAAGAAGAACAT 240

Qy     258 CACGGTGCTGCTGACACCGACTGTGTGCAACGCCAGCGGGGCCAGCCCTGCCAGCCGGCTGC 317
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     241 CACGGTGCTGCTGACACCGACTGTGTGCAACGCCAGCGGGGCCAGCCCTGCCAGCCGGCTGC 300

Qy     318 CGCCATCCTTGCGCTCCTGCACTCGGCCTCGGCCTGCTCGGCCTCGGGGACCCGGCCAGCTATA 377
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     301 CGCCATCCTTGCGCTCCTGCACTCGGCCTCGGCCTGCTCGGCCTCGGGGACCCGGCCAGCTATA 360

Qy     378 GGCTCTGGGGGCCCCGCTGCAGCCCACACTGGGGTGTGGTGCCCCAGGGCTCTGTGCCAC 437
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy     438 TCCTCACAGACTGGCCCAGTGGGAGCCTGCCTGGCTGGTCCTGGTTCCTGAGGCACATCCTAACGCAA 497
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DT   08-OCT-2003   (first entry)
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KW   hysterectomy; angiogenesis; coronary ischaemic condition; skin disease;
KW   gastrointestinal mucosa disorder; acute mucosal lesion; neuropathy; ALS;
KW   chronic mucosal lesion; abnormal keratinocyte differentiation; psoriasis;
KW   Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;
KW   uncontrolled cell growth; cancer; blood coagulation cascade; thrombosis;
KW   haemorrhage; endometrial bleeding; angiogenesis; wound healing; tumour;
KW   tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.
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PR	13-SEP-1999;	99WO-US020944.
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PR	18-SEP-2000;	2000US-00665350.

| XX |
| PA | (GETH) GENENTECH INC. |
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PI	Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI	Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI	Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI	Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI	Williams PM, Wood WI;
XX
DR	WPI; 2003-492258/46.
DR	P-PSDB; AB047365.
XX

PT	Novel secreted and transmembrane polypeptides and polynucleotides
PT	encoding them useful for treating abnormal bleeding involved in
PT	gynecological diseases, skin diseases and neurodegenerative diseases.
XX
PS	Claim 3; Fig 8; 478pp; English.
XX
CC	The invention relates to an isolated PRO polypeptide. PRO317 is useful in
CC	diagnosing or treating abnormal bleeding involved in gynecological
CC	diseases e.g. to avoid or lessen the need for hysterectomy. PRO317 may
CC	also be useful as an agent that affects angiogenesis and PRO317 is useful
CC	in anti-tumour indications or in treating coronary ischaemic conditions.
CC	PRO211 and PRO17 polypeptides are useful for treating disorders
CC	associated with the preservation and maintenance of gastrointestinal
CC	mucosa and the repair of acute and chronic mucosal lesions, skin diseases
CC	associated with abnormal keratinocyte differentiation (e.g. psoriasis).
CC	PRO187 polypeptide is useful for treating Parkinson's disease,
CC	Alzheimer's disease, amyotrophic lateral sclerosis (ALS), neuropathies
CC	and disease related to uncontrolled cell growth, e.g. cancer. PRO219
CC	polypeptide plays a regulatory role in the blood coagulation cascade.
CC	PRO246 polypeptides which serves as tumour specific antigens may be
CC	exploited as therapeutic targets for anti-tumour drugs. PRO269
CC	polypeptide is useful as an antithrombotic agent with reduced risk for
CC	haemorrhage as compared with heparin. PRO317 polypeptide is useful in
CC	treating endometrial bleeding angiogenesis. PRO287 polypeptides and
CC	portion have therapeutic applications in wound healing and tissue repair.
CC	PRO234 polypeptides are useful for treating asthma, rheumatoid arthritis,
CC	psoriasis and multiple sclerosis. The polypeptide and its nucleic acid
CC	are useful for tissue typing. PRO antibodies are useful for
CC	immunohistochemical staining and/or assay of sample fluids. Anti-PRO
CC	antibodies are useful in diagnostic assays for PRO e.g. detecting its
CC	expression in specific cells, tissues or serum and for affinity
CC	purification of PRO from recombinant cell culture or natural sources. The
CC	present sequence represents cDNA encoding a human secreted/transmembrane
CC	PRO polypeptide
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Query Match   98.1%; Score 953.4; DB 7;   Length 960;
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and is derived by analysis of the total score distribution.
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SUMMARIES

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1	953.4	98.1	960	4	US-09-907-794A-17	Sequence 17, Appl
2	953.4	98.1	960	4	US-09-905-125A-17	Sequence 17, Appl
3	953.4	98.1	960	4	US-09-902-775A-17	Sequence 17, Appl
4	877.6	90.3	998	3	US-09-203-939-1	Sequence 1, Appli
5	877.6	90.3	998	3	US-09-251-835-1	Sequence 1, Appli
6	877.6	90.3	998	3	US-09-318-503-1	Sequence 1, Appli
7	877.6	90.3	998	4	US-09-038-261A-1	Sequence 1, Appli
8	877.6	90.3	998	4	US-09-564-329A-1	Sequence 1, Appli
9	451.4	46.4	494	2	US-08-675-508-4	Sequence 4, Appli
10	284	29.2	288	2	US-08-675-508-23	Sequence 23, Appl
11	262.8	27.0	286	2	US-08-675-508-21	Sequence 21, Appl
12	230	23.7	230	2	US-08-675-508-24	Sequence 24, Appl
13	218.4	22.5	232	2	US-08-675-508-25	Sequence 25, Appl
14	203.2	20.9	441	3	US-09-203-939-3	Sequence 3, Appli
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ALIGNMENTS

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; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Klavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tunas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
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; PRIOR APPLICATION NUMBER: PCT/US99/21547
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Db   721  CCGTGGTGTCCCCGCCACCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA  780

Qy   798  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  857
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACCTGAGTTCCTGGGAGTCTCC  840

Qy   858  AGAGATGGGGCCTGAGGCCTGGAGGAAGGGGCCAGGCCTCCACATTCGTGGGGCTCCCTG  917
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Db   841  AGAGATGGGGCCTGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  900

Qy   918  AATGGCAGCCTGAGCACAGCCTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA  972
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Db   901  AATGGCAGCCTGAGCACAGCCTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA  955
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RESULT 2
US-09-905-125A-17
; Sequence 17, Application US/09905125A
; Patent No. 664376
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/905,125A
;   CURRENT FILING DATE:    2001-07-12
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE:    2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE:    1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE:    1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE:    1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE:    1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE:    1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE:    1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE:    1999-09-15
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;   PRIOR FILING DATE:    1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE:    1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE:    1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE:    1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE:    1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE:    1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE:    1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE:    1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE:    1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE:    2000-01-05
;   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-907-794A-17

Query Match             98.1%;  Score 953.4;  DB 4;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 3.2e-232;
Matches  954; Conservative  0; Mismatches  0; Indels  0; Gaps  0;
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Qy    18  GCTGCTTGCCCTGTGATGGCAGGCTTGGCCCTGCAGCCAGCACTGCCCTGCGTGTGCTA   77
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Db     1  GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGCACTGCCCTGCGTGTGCTA   60

Qy    78  CTCCTGCAAAGCCCAGGTGAGCAAGCAGGACTGCCTGCAGTGGAGAACTGCACCCAGCT  137
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Qy   138  GGGGGAGCAGTGCTGGACCCGCGCATCCGCCAGTTGGCTTCCTGACCGTCATCAGCAA  197
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Qy   198  AGGCTGCAGCTTGAACTGCGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  257
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Db   181  AGGCTGCAGCTTGAACTGCGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  240

Qy   258  CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGAGCCGCGGCTGC  317
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Db   301  CGGCCATCCTTGGCGTGCTCCCTGCACTCGGCCTGCTGCTGGGGACCCGGCCAGCTATA  360

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Db   361  GGCTCTGGGGGGGCCCCGCTGCAGCCCACTGGGTGTGCCCAGGCCTCTGTGCCAC  420

Qy   438  TCCTCACAGACCTGGCCCAGTGGGAGGCCTGTTCCTGAGGCACATCCTAACGCAA  497
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Db   421  TCCTCACAGACCTGGCCCAGTGGGAGGCCTGTTCCTGAGGCACATCCTAACGCAA  480

Qy   498  GTCTGACCATGTATGTCGCACCCGTGCCCCCACCCTGGCCCTCTCCA  557
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Db   481  GTCTGACCATGTATGTCTGCACCCGTGCCCCCACCCTGACCCTCTCCA  540

Qy   558  GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGGCCTGCAGATGGCCCCTCCA  617
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Db   541  GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGGCCTGCAGATGGCCCCTCCA  600

Qy   618  ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC  677
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; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-905-125A-17

Query Match        98.1%;     Score 953.4;   DB 4;   Length 960;
Best Local Similarity   99.9%;     Pred. No. 3.2e-232;
Matches  954;    Conservative  0;    Mismatches  0;    Indels  1;    Gaps  0;

Qy   18 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCGACTGCCCTGCTGTGCTA 77
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Qy   78 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGAGAGACTCACCCAGCT 137
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Qy  198 AGGCTGGCAGCTTGAACTGCGTGGATGACTACTACGGTGGCCAAGAAGAACAT 257
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Db  181 AGGCTGGCAGCTTGAACTGCGTGGATGACTACTACGGTGGCCAAGAAGAACAT 240

Qy  258 CACGTGCTGTGACACCGACTTGTGACAACGCAGCGGGCCCATGCCCTGCAGCGCGGCTGC 317
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Qy  318 CGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTCGTCCCTGCTCTCGGGGACCCCGGCCAGCTATA 377
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Qy  378 GGCTCTGGGGGGCCCCGCTCAGCGCCACACTGGGTGTGTGGCCCCAGAGCCTCGTGTCGCCAC 437
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Db  361 GGCTCTGGGGGGCCCCGCTCAGCGCCACACTGGGTGTGTGGCCCCAGAGCCTCGTGTGCCAC 420

Qy  438 TCCTCACAGACCTGGCCCAGTGGGAGCCGTTCCTGGTTCCTGAGGCACATCCTAACGCAA 497
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Db  421 TCCTCACAGACCTGGCCCAGTGGGAGCCGTTCCTGGTTCCTGAGGCACATCCTAACGCAA 480

Qy  498 GTCTGACCATGTATGTCTGCACCCCTGTCCCCCACCCTGACCCTTCCATGGCCCTCTCCA 557
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Qy  558 GGACTCCACCCGGCGAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCA 617
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Db  541 GGACTCCACCCGGCGAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGGCCCCTCCA 600

Qy  618 ACCTCTCTGCTGCGTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGCTCAGGC 677
         ||| ||||||||||||||||||||||||||||||||||||||||||||
Db  601 ACCCTCTCTGCTGCGTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGCTCAGGC 660

Qy  678 ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGT 737
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Db  661 ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGT 720

Qy  738 CCGTGGTGTCCCCGCACCCAGCAGGGACTCAGGAGGCCCAGTAAAGGCTGA 797
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Db  721 CCGTGGTGTCCCCGCACCCAGCAGGGACTCAGGAGGCCCAGTAAAGGCTGA 780

Qy  798 GATGAAGTGGACTGAGTAGAACTGAGGACAAGAGTCGACGTGAGTTCCTGGAGTCTCC 857
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Qy  858 AGAGATGGGGCCTGGAGGCCTGGAAGGGGCCAGGCCTCACATTCGTCGGGGCTCCCTG 917
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Qy  918 AATGGCAGCCTGAGCACAGCAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 972
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RESULT 3
US-09-902-775A-17
; Sequence 17, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
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; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-902-775A-17

Query Match         98.1%;  Score 953.4;  DB 4;  Length 960;
Best Local Similarity 99.9%;  Pred. No. 3.2e-232;
Matches  954;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;

Qy    18 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCGAGCCACTGCCCTGCTGCTA 77
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Db     1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCGAGCCACTGCCCTGCTGCTA 60

Qy    78 CTCCTGCAAAGCCAGGTGAGCAACGAGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 137
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Qy   198 AGGCTGCGAGCTTGAAACTGCGTGGATGACTCACAGAAGCGTGGGCAAGAAGAAACAT 257
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Qy   258 CACGTGTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCGAGCCGCTGC 317
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Qy   318 CGCCATCCTTCGCGTCCTCCTGCACTCGGCCTGTCTGGGGACCCGGCCAGCTATA 377
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTCGCGTCCTCCTGCACTCGGCCTGTCTGGGGACCCGGCCAGCTATA 360

Qy   378 GGCTCTGGGGGGCCCCGCCACACTGGGGTGTGGGCCCCAGGCCTCCTGTGCCAC 437
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTCTGGGGGGCCCCGCCACACTGGGGTGTGGGCCCCAGGCCTCCTGTGCCAC 420

Qy   438 TCCTCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 497
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 480

Qy   498 GTCTGACCACCATGTATGTCTGCACACCCCTGTCCCCACCCTGACCCTTCCA 557
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Qy   558 GGACTCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 617
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Qy   618 ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCCTTAACCCTGCTCAGGC 677
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Db   661 ACCTCTTCCCCCAGAAGCCTTCCCTGCCCACCCACCCATCTCATGTGACTGACTTGAGCCAGGTCTGGT 720

Qy   738 CCGTGTGTCCCCGCCACCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 797
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Qy   918 AATGGCAGCCTGAGCACAGCGTAGCCCTTAATAAACACCTGTTGGATAAGCCCA 972
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RESULT 4
US-09-203-939-1
; Sequence 1, Application US/09203939
; Patent No. 6258939
; GENERAL INFORMATION:
; APPLICANT:  Reiter, Robert E.
; APPLICANT:  Witte, Owen N.
; TITLE OF INVENTION:  PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE:  3043S.54USI1
; CURRENT APPLICATION NUMBER: US/09/203,939
; CURRENT FILING DATE:  2000-12-02
; PRIOR APPLICATION NUMBER:  08/814,279
; PRIOR FILING DATE:  1997-03-10
; PRIOR APPLICATION NUMBER:  60/071,141
; PRIOR FILING DATE:  1998-01-12
; PRIOR APPLICATION NUMBER:  60/074,675
; PRIOR FILING DATE:  1998-02-13
; PRIOR APPLICATION NUMBER:  09/038,261
; PRIOR FILING DATE:  1998-03-10
; NUMBER OF SEQ ID NOS:  16
; SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 998
;   TYPE: DNA
;   ORGANISM: HUMAN PSCA (hPSCA)
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;   LOCATION: (543)
;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
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;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;   NAME/KEY: misc_feature
;   LOCATION: (584)
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;   NAME/KEY: misc_feature
;   LOCATION: (604)
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;   OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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;  LOCATION: (697)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (926)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
US-09-203-939-1

Query Match      90.3%;  Score 877.6;  DB 3;  Length 998;
Best Local Similarity  96.0%;  Pred. No. 5e-213;
Matches 937;  Conservative  0;  Mismatches  34;  Indels  5;  Gaps  4;

Qy     1 GTGACCATGAAGGCTGCTGCTGCCCTGTGATGCGAGGCTTGGCCCTGCAGCCAGGC     60
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Db    72 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG    131

Qy   121 GAGAACTGCACCCAGCAGTGCTGGGGAGCAGTGCTCGACCCGCGCCATCCGCGCCAGTTGGCCTC    180
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Qy   181 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCTGGGATGACTCACAGAGACTACTAC    240
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Qy   241 GTGGGCAAGAAGAACATCACGTGCTGTGTGACACCGACTTGTGCAACGGCCAGCGGGGCCCAT    300
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Qy   421 CCAGGCCTCGTGCCACTCCTCACAG-ACCTGGCCGTCTCCTGGTTCCTG    479
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Qy   480 AGGCACACATCCTAACGCAAGTCTGACCATGTATGTCTGCCCC--ACCCTGA    537
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Qy   538 CCCTCCCATGGCCCTC-TCCAGAGACTCCCACCCGGCAGATCAGCTCAGTGACACAGATC    596
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Qy   957 CTGTTGGATAAGCCCA    972
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RESULT 5
US-09-251-835-1
;  Sequence 1, Application US/09251835A
;  Patent No. 6261789
;  GENERAL INFORMATION:
;  APPLICANT: Reiter, Robert E.
;  APPLICANT: Witte, Owen N.
;  TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
;  FILE REFERENCE: 30435.54USI2
;  CURRENT APPLICATION NUMBER: US/09/251,835A
;  CURRENT FILING DATE: 1999-02-17
;  PRIOR APPLICATION NUMBER: 08/814,279
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: 60/071,141
;  PRIOR FILING DATE: 1998-01-12
;  PRIOR APPLICATION NUMBER: 60/074,675
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: 09/038,261
;  PRIOR FILING DATE: 1998-03-10
;  PRIOR APPLICATION NUMBER: 09/203,939
;  PRIOR FILING DATE: 1998-12-02
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn Ver. 2.0
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;  SEQ ID NO 1
;  LENGTH: 998
;  TYPE: DNA
;  ORGANISM: HUMAN PSCA (hPSCA)
;  FEATURE:
;  NAME/KEY: misc_feature
;  LOCATION: (543)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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;  LOCATION: (584)
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;  LOCATION: (604)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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;  LOCATION: (608)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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;  LOCATION: (615)
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;  NAME/KEY: misc_feature
;  LOCATION: (636)
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;  NAME/KEY: misc_feature
;  LOCATION: (646)
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;  NAME/KEY: misc_feature
;  LOCATION: (697)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (926)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
US-09-251-835-1

Query Match      90.3%;  Score 877.6;  DB 3;  Length 998;
Best Local Similarity  96.0%;  Pred. No. 5e-213;
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Matches 937; Conservative 0; Mismatches 34; Indels 5; Gaps 4;

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Qy      1 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGAGCCAGGC   60
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Db     12 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGAGCCAGGC   71

Qy     61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCAGGTAGCACGAGGACTGCCTGAGGTG    120
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Db     72 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG   131

Qy    121 GAGAACTGCACCCAGCGTGGGGAGCAGTGCTGACCGCCGGCATCCGCGCCAGTTGGCCTC   180
          |||||||||||||||||||||||||||||||||||||||||||||||||
Db    132 GAGAACTGCACCCAGCGTGGGGAGCAGTGCTGACCGCCGGCATCCGCGCCAGTTGGCCTC   191

Qy    181 CTGACCGTCATCGAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTTCACAGGACTACTAC   240
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Db    192 CTGACCGT CATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTTCACAGGACTACTAC   251

Qy    241 GTGGGCAAGAAGAACATCACGTGTCTGTGACACCGACTTGTGCAACCGCCAGCGGGGCCAT   300
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Db    252 GTGGGCAAGAAGAACATCACGTGTCTGTGACACCGACTTGTGCAACCGCCAGCGGGGCCCAT   311

Qy    301 GCCCTGCAGCCGGCTGCCGCCATCCTTGCGCTGGGGGCGCCCGCTGCAGCCCACACTGGGTGTGTGCC   360
          |||||||||||||||||||||||||||||||||||||||||||||||||
Db    312 GCCCTGCAGCCGGCTGCCGCCATCCTTGCGCTGGGGGCGCCCGCTGCAGCCCACACTGGGTGTGTGCC   371

Qy    361 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCGCTGCAGCCCACACTGGGTGTGTGCC   420
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Db    372 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGTGCC   431

Qy    421 CCAGGCCTTCTGCCACTCCTCCACAG-ACTTGCCCAGTGGGAGCCTGTCCTGGTTCCTG   479
          |||||||||||||||||||||||||| |||||||||||||||||||||||||
Db    432 CCAGGCCTTTGTGCCACTCCTCCACAGAACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTG   491

Qy    480 AGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCC--ACCCTGA   537
          |||||||||||||||||||||||||||||||||| |||||||||||||
Db    492 AGGCACATCCTAACGCAAGTTTGACCATGTATGTTTGCACCCCTTTCCCCNAACCCTGA   551

Qy    538 CCCTCCCATGGCCCTC-TCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATC   596
          |||||||||||||||| |||||||||||||||||||||||||||||||||
Db    552 CCTTCCCATGGCCCTTTTCCAGGATTCCNACCNGGCAGATCAGTTTTAGTGANACANATC   611

Qy    597 CGCCTGCAGATGGCCCCCTCCAACCCCTCTCGTGCTGCTTCCATGGCCCCAGCATTCTCCA   656
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Db    672 CCCTTAACCCTGTGTTCAGGCACTTNTCCCCAGGAAGCCTTCCCTGCCCACCCCATTT   731

Qy    717 ATGACTTGAGCGACTGCAGGCTGTCGTCCGTGTCCCCCACACCAGCAGGGGACGACAGCACTCA   776
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Qy    837 CGTGAGTTCCTGGAGTCTCCAGATGGGGCCTGAGGGCTGGAGGCTAGGCCCTTAATAAACAC   896
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Db    852 CGTGAGTTCCTGGAGTTTCCAGAGATGGGGCCTGAGGGCTGGAGGCGTAGGCCCTTAATAAACAC   911

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Qy    957 CTGTTGGATAAGCCCA   972
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; Sequence 1, Application US/0931503A
; Patent No. 6261791
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US13
; CURRENT APPLICATION NUMBER: US/09/318,503A
; CURRENT FILING DATE: 1999-05-25
; EARLIER APPLICATION NUMBER: 08/814,279
; EARLIER FILING DATE: 1997-03-10
; EARLIER APPLICATION NUMBER: 60/071,141
; EARLIER FILING DATE: 1998-01-12
; EARLIER APPLICATION NUMBER: 60/074,675
; EARLIER FILING DATE: 1998-02-13
; EARLIER APPLICATION NUMBER: 09/038,261
; EARLIER FILING DATE: 1998-03-10
; EARLIER APPLICATION NUMBER: 09/203,939
; EARLIER FILING DATE: 1998-12-02
; EARLIER APPLICATION NUMBER: 09/251,835
; EARLIER FILING DATE: 1999-02-17
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 998
;   TYPE: DNA
;   ORGANISM: HUMAN PSCA (hPSCA)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (543)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (580)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (584)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (604)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (608)
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;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (615)
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;   NAME/KEY: misc_feature
;   LOCATION: (636)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (640)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (646)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (697)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
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;   NAME/KEY: misc_feature
;   LOCATION: (926)
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US-09-318-503-1

RESULT 6
US-09-318-503-1

Query Match   90.3%;   Score 877.6; DB 3; Length 998;
Best Local Similarity   96.0%;   Pred. No. 5e-213;
Matches 937; Conservative   0; Mismatches 34; Indels 5; Gaps 4;

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Qy     61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCCAGGTG 120
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Qy    181 CTGACCGTCATCAGCAAAGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACTAC 240
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Qy    301 GCCCTGCAGCCGGCTGCGCCGCCATCCTTCGGCGTCCCGCCACTCGGCCTGCTCTGG 360
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Db    312 GCCCTGCAGCCGGCTGCTGCCGCCATCCTTCGGCGTCCCGCTGCTCGGCCTGCTCTGG 371

Qy    361 GGACCCGGCCAGTATAGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGTGTGGTGCC 420
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Qy    480 AGGCACATCTAACGCAAGTCTGACCAAGTATGTCTGACCCCTGTCCCC--ACCCTGA 537
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Qy    538 CCCTCCCATGGCCCTC-TCCAGGACTCCCACCCGGCGAGATCAGCTCAGTGACACAGATC 596
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RESULT 7
US-09-038-261A-1

; Sequence 1, Application US/09038261A
; Patent No. 6267960
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54USU1
; CURRENT APPLICATION NUMBER: US/09/038,261A
; CURRENT FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 998
; TYPE: DNA
; ORGANISM: HUMAN PSCA (hPSCA)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (543)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (580)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (584)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (604)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (608)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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; LOCATION: (926)
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US-09-038-261A-1

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Qy      1 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC 60
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Db     12 GTGACCATGAAGGCTGTGCTGTCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC 71

Qy     61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCCAGGTG 120
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Qy    121 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGGAGCCCGCGCATCCGCGCAGTTGGCCTC 180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGGAGCCCGCGCATCCGCGCAGTTGGCCTC 180
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SEQ ID NO 1
LENGTH: 998
TYPE: DNA
ORGANISM: HUMAN PSCA (hPSCA)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (543)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (580)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (584)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (604)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (608)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (615)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (636)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (640)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (646)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (697)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
NAME/KEY: misc_feature
LOCATION: (926)
OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
US-09-564-329A-1

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Db 132 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGGACCGCGCGCCATCCGCGCGAGTTGGCCTC 191

Qy 181 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC 240
        |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 192 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC 251

Qy 241 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCGGCCCAT 300
        ||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||
Db 252 GTGGGCAAGAAGAACATCACGTGTGTGACACCGACTTGTGCAACGCCAGCGGGCGGCCCAT 311

Qy 301 GCCCTGCGAGCGCGGCGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTCGGCCTGCTCTGG 360
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 312 GCCCTGCGAGCGCGGCGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTCGGCCTGCTCTGG 371

Qy 361 GGACCCGGCCAGCTATAGGCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCC 420
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 372 GGACCCGGCCAGCTATAGGCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCC 431

Qy 421 CCAGGCCTCGTGTGCCACTCCTCACAG-ACCTGGCCCAGTGGAGCCGTGTCCTGGTTCCTG 479
        ||||||||| ||||||||||||||||| |||||||  |||||||||| ||||||||||||
Db 432 CCAGGCCTTTGTGCCACTCCTCACAGAACCTGGCGGGAGCCTGTCCTGGTTCCTG 491

Qy 480 AGGCACATCCTAACGCAGCAAGTCTGACCATGTATGTCTGCACCCCGTCCC--ACCCTGA 537
        |||||||||||||||||||||| |||||||||||||  ||||||| |||||  |||||||
Db 492 AGGCACATCCTAACGCAGCAAGTTTGACCATGTATGTTGCACCCCTTTTCCCCNAACCCTGA 551

Qy 538 CCCTCCCATGGCCCTC-TCCAGGACTCCACCCGGCAGATCAGCTCAGTGACACAGATC 596
        || ||||||||  ||| ||||||  |||| ||  ||||||  ||  |||||||| |||
Db 552 CCTTCCCATGGGCCTTTTCCAGGATTCCAACCNGGCAGATCCAGTTTTAGTGANACANATC 611

Qy 597 CGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGCTTGCATGGCCAGCCAGCATTCTCCA 656
        ||| |||||||||||||||||||| | | ||| |||||||||||||||||||| ||||||
Db 612 CGCNTGCAGATGGCCCCTCCAACCNTTNTGTTGNTGCTTGCATGGCCAGCCAGATTTTCCA 671

Qy 657 CCCTTAACCCTGTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCT 716
        |||||||||||||||| ||||||| | ||||||| |||||||||||| ||||||||||| |
Db 672 CCCTTAACCCTGTGTGTTCAGGCACTTNTTCCCCCCAGGAAGCCTTCCCGCCCACCCCATTT 731

Qy 717 ATGACTTGAGCCAGGTCTGGTCCGTGGTTGTCCCCGCCACCAGCAGGGACAGGCACTCA 776
        ||||| ||||||||  |||||||||||||  | |||||||||||||||||||||| |||
Db 732 ATGAATTGAGCCAGTTTTGGTCCGTGGTTCCCGTGGTTCCCCGCCACCAGCAGGGACAGGCAATCA 791

Qy 777 GGAGGGCCCAGTAAAGGCTGAGATGAAGGTGGACTGAGGTGAGACTGACAAGAGTCGA 836
        |||||||||||||||||||||||||| | ||||||||| ||||||| |||||||| ||
Db 792 GGAGGGCCCAGTAAAGGCTGAGATGAATGAGTGGACTGAGTGAGACTGGAGGACAAGAGTTGA 851

Qy 837 CGTTGAGTTCCTGGGAGTTCCAGAGATGGGGGCTGGAGGGGCTGGAGGAAGGGGCCAGGGCC 896
        |||||||||||||||||| |||||||||||||| ||||||||||||||||||||||||| ||
Db 852 CGTTGAGTTCCTGGGAGTTTCCAGAGATGGGGGCTTGGAGGGGCTGGAGGAAGGGGCCAGGCC 911

Qy 897 TCACATTCGTGGGGGCTCCTGAATGCAGCCCTGAGCAGTGGCCCTAGCACAGCCCTTAATAAACAC 956
        ||||||| |||||| ||| |||||| ||||||||||||    |||||||||| ||||||||||||
Db 912 TCACATTGTGGGGNTCCC-GAATGGCAGCACAGCCCTGAGCAGCACAGCCCTAGCACAGCCCTGAGCAGCACAGCCCTTAATAAACAC 970

Qy 957 CTGTTGGGATAAGCCCA 972
        |||||||||||||| ||
Db 971 CTGTTGGGATAAGCCAA 986
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Query Match   90.3%; Score 877.6; DB 4; Length 998;
Best Local Similarity 96.0%; Pred. No. 5e-213;
Matches 937; Conservative 0; Mismatches 34; Indels 5; Gaps 4;

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Qy 1  GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGCTTGCCCTGCAGCCAGGC 60
       ||||||||||||||||||||||||||||||||||||||||||||||||||
Db 12 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGCTTGCCCTGCAGCCAGGC 71

Qy 61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCGAAAGCCCAGGTGAGCAAGAACGAGGACTGCCTGCAGGTG 120
       |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 72 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCGAAAGCCCAGGTGAGCAAGAACGAGGACTGCCTGCAGGTG 131
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         CITY:  Palo Alto
         STATE:  CA
         COUNTRY:  U.S.
         ZIP:  94304
    COMPUTER READABLE FORM:
         MEDIUM TYPE:  Diskette
         COMPUTER:  IBM Compatible
         OPERATING SYSTEM:  DOS
         SOFTWARE:  FastSEQ Version 1.5
    CURRENT APPLICATION DATA:
         APPLICATION NUMBER:  US/08/675,508
         FILING DATE:  Filed Herewith
    ATTORNEY/AGENT INFORMATION:
         NAME:  Billings, Lucy J.
         REGISTRATION NUMBER:  36,749
         REFERENCE/DOCKET NUMBER:  PF-0066 US
    TELECOMMUNICATION INFORMATION:
         TELEPHONE:  415-855-0555
         TELEFAX:  415-845-4166
    INFORMATION FOR SEQ ID NO:  4:
    SEQUENCE CHARACTERISTICS:
         LENGTH:  494 base pairs
         TYPE:  nucleic acid
         STRANDEDNESS:  single
         TOPOLOGY:  linear
    MOLECULE TYPE:  cDNA
    IMMEDIATE SOURCE:
         LIBRARY:  SCAH-2
         CLONE:
US-08-675-508-4

Query Match             46.4%;  Score 451.4;  DB 2;  Length 494;
Best Local Similarity   97.8%;  Pred. No. 3.3e-105;
Matches  483;  Conservative   5;  Mismatches   2;  Indels   4;  Gaps    3;

Qy      1 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGCCCTGTTGATGGCAGGCGTTGCCCTGCGAGCCAGGC   60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGCCCTGTTGATGGCAGGCGTTGCCCTGCGAGCCAGGC   60

Qy     61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGTGCCTGCTGCGCAGTG  120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGTGCCTGCTGCGCAGTG  120

Qy    121 GAGAACTGCACCCAGCTGGGGAGCAGTGCTGCTGGATCCCGCGCATCCCGCAGTTGGCCTC  180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 GAGAACTGCACCCAGCTGGGGAGCAGTGCTGCTGGATCCCGCGCATCCCGCAGTTGGCCTC  180

Qy    181 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGGCTGGATGCACACCGACTTGTGACACCAG  240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGGCTGGATGCACACCGACTTGTGACACCAG  240

Qy    241 GTGGGCAAGAAGAACATCACGTGCCGCCATCCTTGCGCCACTCCTTGCGCCACTCCT  300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 GTGGGCAAGAAGAACATCACGTGCCGCCATCCTTGCGCCACTCCTTGCGCCACTCCT  300

Qy    301 GCCCTGCAGCCGGCGGCCCGCGCCAGCGTATAGGCTCTGGGGGGCCCCA  360
          ||||||||||||||||||||||||||||||||||||||||||
Db    301 GCCCTGCAGCCGGCGGCCCGCGCCAGCGTATAGGCTCTGGGGGGCCCCA  360

Qy    361 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCA  420
          |||||||||||||||||||||||||||||||
Db    361 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCA  420

Qy    421 CC-AGGCCTCTGTGCCACTCCTCACAGACCT-GGCCCAGTGGGAGCCTG--TCCTGGTTC  476
          || ||||||||||||||||||||| |||||| |||||||||||||||:|  ||||||||
Db    421 CCAAGGCCCTCTGTGTCSCACTCCTMACAGACCTGSCACCTGGGCCCCAGTGGGGAGSCTGTGTCTCTNGGTTC  480

Qy    477 CTGAGGCACATCCT  490
          ||||||||||||||
Db    481 CTGAGGCACATCCT  494
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RESULT 9
US-08-675-508-4
; Sequence 4, Application US/08675508
; Patent No. 5856136
; GENERAL INFORMATION:
    APPLICANT:  Au-Young, Janice
    TITLE OF INVENTION:  NOVEL HUMAN STEM CELL ANTIGENS
    NUMBER OF SEQUENCES:  26
    CORRESPONDENCE ADDRESS:
    ADDRESSEE:  Incyte Pharmaceuticals, Inc.
    STREET:  3174 Porter Drive
```

```
Qy    121 GAGAACTGCACCCAGCTGGGGAGCAGTGCTGCTGGATCCCGCGCATCCCGCAGTTGGCCTC  180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    132 GAGAACTGCACCCAGCTGGGGAGCAGTGCTGCTGGATCCCGCGCATCCCGCAGTTGGCCTC  191

Qy    181 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGGCTGGATGCACACCGACTTGTGGTGCC  240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    192 CTGACCGTCATCAGCAGCCGGCTGGCTGCAGCTTGAACTGGCTGGATGCACACCGACTTGTGGTGCC  251

Qy    241 GTGGGCAAGAAGAACATCACGTGCCGCCATCCTTGCGCCACTCCTTGCGCCACTCCT  300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    252 GTGGGCAAGAAGAACATCACGTGCCGCCATCCTTGCGCCACTCCTTGCGCCACTCCT  311

Qy    301 GCCCTGCAGCCGGCGGCCCATCCTTGCGCTCCTCCCTGCACTCGGCCTGCTCTCGG  360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    312 GCCCTGCAGCCGGCCGGCTGCCGCCGCATCCTCCGCTGCTCCTCCCTGCACTCGGCCTGCTCTCGG  371

Qy    361 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCCCACACTGGGTGTGGTGCC  420
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    372 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCCCACACTGGGTGTGGTGCC  431

Qy    421 CCAGGCCCTCTGTGCCACTCCTCACAG-ACCTGCTGGGGAGCAGTGCCTGTCTCCTGGTTCCTG  479
          ||||||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||
Db    432 CCAGGCCCTTGTGCCACTCCTCACAGAACCTGGCTGGGGAGCAGTGCCCAGTGTGGTGTCC  491

Qy    480 AGGCACATCCTAAGCACAGTCTGACCATGTATGTCTGACACCCCTGTCCCC--ACCCTGA  537
          |||||||||||||||||||| |||||||||||||||||||||||||||||  |||||||
Db    492 AGGCACATCCTAACGCAAGTTGACCATGTATGTTTGACACCCCTTTCCCNAAACCCTGA  551

Qy    538 CCCTCCCATGGCCCTC-TCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATC  596
          |||||||||||||||| |||||||||||||||||||||||||||||||||||||
Db    552 CCTTCCCATGGCCCTTTTCCAGGATTCCAGGGCCGAGTCAGTTTTAGTGANACANATC  611

Qy    597 CGCCTGCAGATGGGCCCCTGCAACCCTCTCTGCTGCTGTCTGTTTCCATGGCCCAGCATTCTCCA  656
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    612 CGCNTGCAGATGGGCCCCTCCAACCNTTTNTGTNTGNTGTTTCCATGGCCCAGCATTTTCCA  671

Qy    657 CCCTTAACCCTGTGCTCAGGCACCTCTTCCCTGCCACCCCCATCT  716
          ||||||||| ||||||||| |||||||||||||||||||||
Db    672 CCCTTAACCCTGTGTTCAGGCACTYNTTCCCCAGGAAGCCTTCCCTGCCACCCCATTT  731

Qy    717 ATGACTTGAGCAGTCTGTCCGTGGTGTCCCCGCACCCCAGCAGGGACACTCA  776
          ||||||||||||||| ||||||||||||| |||||||||||||||||||
Db    732 ATGAATTGAGCAGTTTGTCCGTGGTGTCCCCGCACCCCAGCAGGGACAGGCAATCA  791

Qy    777 GGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGA  836
          ||||||||||||||||||||||||| |||||||||||||||||||||||||| |
Db    792 GGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTTGA  851

Qy    837 CGTGAGTTCCTGGGAGTCTCCAGAGATGGGCCTGGAGGGCCTGAGGAAGGGGCCAGGCC  896
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    852 CGTGAGTTCCTGGGAGTTTCCAGAGATGGGCCTGGAGGGCCTGGAGGGAAGGGGCCAGGGC  911

Qy    897 TCACATTCGTGGGGCTCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACAC  956
          |||||||||||||||||||||||||||||||||||||||||||||||| ||||||||
Db    912 TCACATTTGTGGGGNTCCC-GAATGGCAGCCTGAGCAGCAGCGTAGGCCCTTAATAAACAC  970

Qy    957 CTGTTGGATAAGCCCA  972
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Db    971 CTGTTGGATAAGCCAA  986
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RESULT 10
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US-08-675-508-23
; Sequence 23, Application US/08675508
; Patent No. 5856136
; GENERAL INFORMATION:
; TITLE OF INVENTION: NOVEL HUMAN STEM CELL ANTIGENS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/675,508
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0066 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 288 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY: BLADTUT02
; CLONE: 1312529
US-08-675-508-23

Query Match   29.2%;   Score 284; DB 2; Length 288;
Best Local Similarity 100.0%;   Pred. No. 6.7e-63;
Matches 284; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 GTGACCATGAAGGCTGTGCTGCCTGCTGTTGATGCAGGCTTGGCCCTGCAGCCCAGGC   60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GTGACCATGAAGGCTGTGCTGCCTGCTGTTGATGCAGGCTTGGCCCTGCAGCCCAGGC   60

Qy   61 ACTGCCCTGCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 ACTGCCCTGCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG 120

Qy 121 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGGACCGCGCATCCGGCAGTTGGCCTC 180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 121 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGGACCGCGCATCCGGCAGTTGGCCTC 180

Qy 181 CTGACCGTCATCAGCAAAGGCTGCGAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC 240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 181 CTGACCGTCATCAGCAAAGGCTGCGAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC 240

Qy 241 GTGGGCAAGAAGAACATCACGTGCTGTGTGACACTTGTGCAA 284
         ||||||||||||||||||||||||||||||||||||||||||
Db 241 GTGGGCAAGAAGAACATCACGTGCTGTGTGACACTTGTGCAA 284

RESULT 11
US-08-675-508-21
; Sequence 21, Application US/08675508
; Patent No. 5856136
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL HUMAN STEM CELL ANTIGENS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/675,508
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0066 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-845-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY: UTRSNOT01
; CLONE: 588615
US-08-675-508-21

Query Match   27.0%;   Score 262.8; DB 2; Length 286;
Best Local Similarity   95.8%;   Pred. No. 1.6e-57;
Matches 275; Conservative 0; Mismatches 11; Indels 0; Gaps 1;

Qy   34 ATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAG   93
         ||||||||||||||||||||||||||| |||||||||||||||||||||||||||||||
Db   1 ATGGCAGGCTTGGCCCTGCAGCCAGNACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAG   60

Qy   94 GTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCTGGGGGAGCAGTGCTGG 153
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 GTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCTGGGGGAGCAGTGCTGG 120

Qy 154 ACCGCGCGCATCCGCGGCAGTTGGCCTCNCTGACCGTCATCAGCAGAAGAACATCACGTGCTGTGAAC 213
         |||||||||| |||| ||||||||||| |||||||||||||||||||||||||||||||||||
Db 121 ACCGCGCGCCATTNCG-GCAGTTGGCCTNCTGACCGTCATCAGCAGAAGAACATCACGTGCTGTGAAC 179

Qy 214 TGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGACCGGCCCATGCCCGGCCGC 273
         |||||||||||| |||||||||||||||||||||||||||||||||||||||||||||
Db 180 TGCGTGGATGACTNACAGGACTACTACGTGGGCAAGAAGACCGGCCCATGCCCGGCCGC 239

Qy 274 GACTTGTGCAACGCCAGCGAGCGGCCCCATGCCCTGCGAGNCGGCTNTCGC 320
         |||||||||||| ||||||||| |||||||||||||| |||| |||| ||
Db 240 GACTTGTGCAANGGCANCGGGCANCGGGCCCATGCCCTGCGAGNCGGCTNTCGC 286

RESULT 12
US-08-675-508-24
; Sequence 24, Application US/08675508
; Patent No. 5856136
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL HUMAN STEM CELL ANTIGENS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA

```
;      COUNTRY:  U.S.
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/675,508
;      FILING DATE:  Filed Herewith
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0066 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-845-4166
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  230 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    IMMEDIATE SOURCE:
;      LIBRARY:  BLADTUT02
;      CLONE:  1314679
US-08-675-508-24

  Query Match             23.7%;  Score 230;  DB 2;  Length 230;
  Best Local Similarity   100.0%;  Pred. No. 2.9e-49;
  Matches  230;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        261 GTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGCTGCCGC 320
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGCTGCCGC 60

Qy        321 CATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTGCTCTGGGGACCCGGCCAGCTATAGGC 380
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTGCTCTGGGGACCCGGCCAGCTATAGGC 120

Qy        381 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTCTGTGCCACTCC 440
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTCTGTGCCACTCC 180

Qy        441 TCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 490
              ||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCT 230

RESULT 13
US-08-675-508-25
; Sequence 25, Application US/08675508
; Patent No. 5856136
;  GENERAL INFORMATION:
;    APPLICANT:  Au-Young, Janice
;    TITLE OF INVENTION:  NOVEL HUMAN STEM CELL ANTIGENS
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  U.S.
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/675,508
;      FILING DATE:  Filed Herewith
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0066 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-845-4166
;  INFORMATION FOR SEQ ID NO:  25:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  232 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    IMMEDIATE SOURCE:
;      LIBRARY:  BLADTUT02
;      CLONE:  1315052
US-08-675-508-25

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RESULT 14
US-09-203-939-3
; Sequence 3, Application US/09203939
; Patent No. 6258939
; GENERAL INFORMATION:
;  APPLICANT:  Reiter, Robert E.
;  APPLICANT:  Witte, Owen N.
;  TITLE OF INVENTION:  PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
;  FILE REFERENCE:  30435.54USI1
;  CURRENT APPLICATION NUMBER: US/09/203,939
;  CURRENT FILING DATE:  2000-12-02
;  PRIOR APPLICATION NUMBER:  08/814,279
;  PRIOR FILING DATE:  1997-03-10
;  PRIOR APPLICATION NUMBER:  60/071,141
;  PRIOR FILING DATE:  1998-01-12
;  PRIOR APPLICATION NUMBER:  60/074,675
;  PRIOR FILING DATE:  1998-02-13
;  PRIOR APPLICATION NUMBER:  09/038,261
;  PRIOR FILING DATE:  1998-03-10
;  NUMBER OF SEQ ID NOS:  16
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 441
;   TYPE: DNA
;   ORGANISM: MURINE PSCA (mPSCA)
US-09-203-939-3

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  Best Local Similarity   66.4%;  Pred. No. 2.2e-42;
  Matches  292;  Conservative    0;  Mismatches  148;  Indels    0;  Gaps    0;

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Search completed: September 18, 2004, 19:23:45
Job time : 115.549 secs

RESULT 15
US-09-251-835-3
; Sequence 3, Application US/09251835A
; Patent No. 6261789
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54USI2
; CURRENT APPLICATION NUMBER: US/09/251,835A
; CURRENT FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 441
; TYPE: DNA
; ORGANISM: MURINE PSCA (mPSCA)
US-09-251-835-3

Query Match   20.9%; Score 203.2; DB 3; Length 441;
Best Local Similarity 66.4%; Pred. No. 2.2e-42;
Matches 292; Conservative 0; Mismatches 148; Indels 0; Gaps 0;

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          GenCore version 5.1.6
       Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:       September 18, 2004, 06:17:58 ; Search time 728.466 Seconds
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Perfect score:   972
Sequence:        1 GTGACCATGAAGGCTGTGCT.........ACACCTGTTGGATAAGCCCA 972

Scoring table:   IDENTITY.NUC
                 Gapop 10.0 , Gapext 1.0

Searched:        3327077 seqs, 2523723180 residues

Total number of hits satisfying chosen parameters:        6654154

Minimum DB seq length:  0
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Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

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SUMMARIES

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2	972	100.0	1023	11	US-09-080-140-12	Sequence 12, Appl
3	959.4	98.7	1028	15	US-10-252-157-273	Sequence 273, App
4	953.4	98.1	960	9	US-09-909-320-17	Sequence 17, Appl
5	953.4	98.1	960	9	US-09-909-088B-17	Sequence 17, Appl
6	953.4	98.1	960	9	US-09-905-291A-17	Sequence 17, Appl
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45	953.4	98.1	960	10	US-09-903-925-17	Sequence 17, Appl

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

ALIGNMENTS

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RESULT 1
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; Sequence 11, Application US/09080140
; Publication No. US20040018553A1
GENERAL INFORMATION:
   APPLICANT:  BILLING-MEDEL, PATRICIA
   APPLICANT:  COHEN, MAURICE
   APPLICANT:  COLPITTS, TRACEY L.
   APPLICANT:  FRIEDMAN, PAULA N.
   APPLICANT:  GORDON, JULIAN
   APPLICANT:  GRANADOS, EDWARD N.
   APPLICANT:  HODGES, STEVEN C.
   APPLICANT:  KLASS, MICHAEL R.
   APPLICANT:  KRATOCHVIL, JON D.
   APPLICANT:  ROBERTS-RAPP, LISA
   APPLICANT:  RUSSELL, JOHN C.
   APPLICANT:  STROUPE, STEPHEN D.
   TITLE OF INVENTION:  REAGENTS AND METHODS USEFUL
   TITLE OF INVENTION:  FOR DETECTING DISEASES OF THE PROSTATE
   NUMBER OF SEQUENCES:  31
   CORRESPONDENCE ADDRESS:
      ADDRESSEE:  Abbott Laboratories
      STREET:  100 Abbott Park Road
      CITY:  Abbott Park
      STATE:  IL
      COUNTRY:  USA
      ZIP:  60064-3500
   COMPUTER READABLE FORM:
      MEDIUM TYPE:  Diskette
      COMPUTER:  IBM Compatible
      OPERATING SYSTEM:  DOS
      SOFTWARE:  FastSEQ for Windows Version 2.0
   CURRENT APPLICATION DATA:
      APPLICATION NUMBER:  US/09/080,140
      FILING DATE:
      CLASSIFICATION:
   PRIOR APPLICATION DATA:
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Qy   541 TCCCATGGCCCCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCCGC 600
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Db   592 TCCCATGGCCCCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCCGC 651

Qy   601 TGCAGATGGCCCCTCCAACCCTCTTCTGCTGTTTCAATGGCCCAGCAATTCTCCACCCT 660
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   652 TGCAGATGGCCCCTCCAACCCTCTTCTGCTGTTTCAATGGCCCAGCAATTCTCCACCCT 711

Qy   661 TAACCCTGTGCTGCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCGCCAGCTCCTATGA 720
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   712 TAACCCTGTGCTGCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCGCCAGCTCCTATGA 771

Qy   721 CTTGAGCCAGGTCTGGTCTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGGACACTCAGGAG 780
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   772 CTTGAGCCAGGTCTGGTCTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGGACACTCAGGAG 831

Qy   781 GGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGAGAGGACAAGAGTCGACGTG 840
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   832 GGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAACTGAGAGGACAAGAGTCGACGTG 891

Qy   841 AGTTCCTGGAGTCTCCAGAGATGGGGCTCCTGGAGGAGGGCCAGGCCTCAC 900
           |||||||||||||||||||||||||||||||||||||||||||||||||||
Db   892 AGTTCCTGGAGTCTCCAGAGATGGGGCTCCTGGAGGAGGGCCAGGCCTCAC 951

Qy   901 ATTCGTGGGGCTCCCTGAATGGCCAGCCTGAGCACAGCGTAGGCCCCTTAATAAACACCTGT 960
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   952 ATTCGTGGGGCTCCCTGAATGGCCAGCCTGAGCACAGCGTAGGCCCCTTAATAAACACCTGT 1011

Qy   961 TGGATAAGCCCA 972
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Db  1012 TGGATAAGCCCA 1023
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Right column

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RESULT 3
US-10-252-157-273
; Sequence 273, Application US/10252157
; Publication No. US20030190640A1
; GENERAL INFORMATION:
; APPLICANT: Faris, Mary
; APPLICANT: Pearson, Cecelia I.
; TITLE OF INVENTION: GENES EXPRESSED IN PROSTATE CANCER
; FILE REFERENCE: PA-0027-1 US
; CURRENT APPLICATION NUMBER: US/10/252,157
; CURRENT FILING DATE: 2002-10-01
; PRIOR APPLICATION NUMBER: 60/295,048
; PRIOR FILING DATE: 2001-05-31
; NUMBER OF SEQ ID NOS: 501
; SOFTWARE: PERL Program
; SEQ ID NO 273
;  LENGTH: 1028
;  TYPE: DNA
;  ORGANISM: Homo sapiens
;  FEATURE:
;  NAME/KEY: misc feature
;  OTHER INFORMATION: Incyte ID No. US2003019064A1 239797.3
US-10-252-157-273

Query Match           98.7%;  Score 959.4;  DB 15;  Length 1028;
Best Local Similarity 99.8%;  Pred. No. 4.2e-251;  Indels 1;  Gaps 1;
Matches 971;  Conservative 0;  Mismatches 0;

Qy     1 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    52 GTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC 111

Qy    61 ACTGCCCTGCTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG 120
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   112 ACTGCCCTGCTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG 171

Qy   121 GAGAACTGCACCCAGTCTGGGGAGCAGTGCTGACCCGGCGCATCCGCGCAGTTGGCCTC 180
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   172 GAGAACTGCACCCAGTCTGGGGAGCAGTGCTGACCCGGCGCATCCGCGCAGTTGGCCTC 231

Qy   181 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTGACCAGGACTACTAC 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   232 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTGACCAGGACTACTAC 291

Qy   241 GTGGGCAAGAAGAACATCACGTGTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT 300
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   292 GTGGGCAAGAAGAACATCACGTGTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT 351

Qy   301 GCCCTGCAGCCGGCCATCCTGCGCCACTCGGCCTCGTGCTCTGG 360
           ||||||||||||||||||||||||||||||||||||||||||||
Db   352 GCCCTGCAGCCGGCCATCCTGCGCCACTCGGCCTCGTGCTCTGG 411

Qy   361 GGACCCGGCCAGCTATAGGCTGGGGGG-CCCCGGGGG 419
           ||||||||||||||||||||||||||| ||||| |||
Db   412 GGACCCGGCCAGCTATAGGCTGGGGGGGCCCCGGGGG 471

Qy   420 CCCAGGCCTCTGTGCCCGCTGCAGACCTGGAGCCCCAGACCTGGAGGAG 479
           |||||||||||||||||||||||||||||||||||||||||||||||||
Db   472 CCCAGGCCTCTGTGCCCGCTGCAGACCTGGAGCCCCAGACCTGGAGGAG 531

Qy   480 AGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCTGACC 539
           |||||||||||||||||||||||||||||||||||||||||||||||
Db   532 AGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCTGACC 591

Qy   540 CTCCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGC 599
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   592 CTCCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGC 651

Qy   600 CTGCAGATGGCCCCTCCAACCCTCTTCCCCCAGAAGCCTTCCCTGCGCCAGCATTCCCACCC 659
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   652 CTGCAGATGGCCCCTCCAACCCTCTTCCCCCAGAAGCCTTCCCTGCGCCAGCATTCCCACCC 711

Qy   660 TTAACCCTGTGCTGCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCGCCACCCCATCTATG 719
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Db   712 TTAACCCCTGTCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCCTGCCCACCCCATCTATG 771
           ||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   720 ACTTGAGCCAGGTCTGGTCCGTCGTGTCCCCGCACCCAGCGGGACAGGCACTCAGGA 779
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   772 ACTTGAGCCAGGTCTCGGTCCGTGTCCCCGCACCCAGCGGGACAGGCACTCAGGA 831

Qy   780 GGGCCCAGTAAAGGCTGAGATGAAGTGGACTGACTAGAACTGGAGGACAAGAGTCGACGT 839
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   832 GGGCCCAGTAAAGGCTGAGATGAAGTGGACTGACTGAGTAGAACTGGAGGACAAGAGTCGACGT 891

Qy   840 GAGTTCCTGGGAGTCTCCAGAGATGAGGCCTGAGGGGGGGGAAGGGGCCAGGCCTCA 899
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   892 GAGTTCCTGGGAGTCTCCAGAGATGGGGGCCTGAGGCCTGAGGGGGGAAGGGGGCCAGGCCTCA 951

Qy   900 CATTCGTGTGGGGGCTCCCTGAATGCAGCCTGAGCACAGGGTAGCCCTTAATAAACACCTG 959
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   952 CATTCGTGTGGGGCTCCCTGAATGCAGCCTGAGCACAGCGTAGCGCTAGCGTAGCCCTTAATAAACACCTG 1011

Qy   960 TTGGATAAGCCCA 972
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Db   1012 TTGGATAAGCCCAA 1024

RESULT 4
US-09-909-320-17
; Sequence 17, Application US/09909320
; Patent No. US20020132240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,320
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-320-17

Query Match   98.1%; Score 953.4; DB 9; Length 960;
Best Local Similarity   99.9%; Pred. No. 1.8e-249;
Matches 954; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   18 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCACCCAGCTGTGTGCTA 77
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCACCCAGCTGTGTGCTA 60

Qy   78 CTCCTGCAAAGCCCAGGTGAGCAACGAGCAACGAGGAGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 137
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTCCTGCAAAGCCCAGGTGAGCAACGAGCAACGAGGAGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy   138 GGGGGAGCAGTGCTGGACCGGCATCCGGCAGTTGGCCTCCTGACCGTCATCAGCAA 197
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGCTGGACCGGCATCCGGCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy   198 AGGCTGCAGCTGAACTGCCTGATGACTTCACAGGACTACACGGTGGGCAAGAAGAACAT 257
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTGAACTGCCTGATGACTTCACAGGACTACACGGTGGGCAAGAAGAACAT 240

Qy   258 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCGGGCCCATGCCCAGCCGGCTGC 317
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCGGGCCCATGCCCAGCCGGCTGC 300

Qy   318 CGCCATCCTTGCGCTGCTCCCTGCACTCGGCGTGCTGCTCGGCGACCCGGCCAGCTATA 377
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTGCGCTGCTCCCTGCACTCGGCGTGCTGCTCGGCGACCCGGCCAGCTATA 360

Qy   378 GGCTGCTGGGGGGCCCCGTCGAGCCCACCTGGGGTGTGGTGCCCCAGGCCTCTGTGCCAC 437
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTGCTGGGGGGGCCCCGTCGAGCCCACCTGGGGTGTGGTGCCCCAGGCCTCTGTGCCAC 420

Qy   438 TCCTCACAGACCTGCCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 497
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCACAGACCTGCCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 480

Qy   498 GTCTGACCATGTATGTCTGCACCCCTGCGCAGATCAGCTTCAGACAGATCGGCCCCTCCA 557
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 GTCTGACCATGTATGTCTGCACCCCTGCGCAGATCAGCTTCAGACAGATCGGCCCCTCCA 540

Qy   558 GGACTCCCACCCGGCAGATCCGGCAGATCCGCCGCTGCAGATGGCCCCTCCA 617
           ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 GGACTCCCACCCGGCAGATCCGGCAGATCCGCCGCTGCAGATGGCCCCTCCA 600

Qy   618 ACCCTCTCTGCTGTTCCATGGCCCAGCATTCTCACCCTTAACCCTGTGCTCAGGC 677
           ||||||||||||||||||||||||||||||||||||||||||||||||||||

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Db   601 ACCCTCTCTGCTGCTGTTTCCATGGCCAGCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 660
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   678 ACCTCTTCCCCAGGAGGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT   737
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 ACCTCTTCCCCAGGAGGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT   720

Qy   738 CCGTGGTGTCCCCGCCACCCAGCAGGGACAGCACTCAGGAGGGCCCAGTAAAGGCTGA   797
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 CCGTGGTGTCCCCGCCACCCAGCAGGGACACGGCCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy   798 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTGCACGTGACGTGAGTTCCTGGAGTCTCC 857
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTGCACGTGAGTTCCTGGGAGTCTCC 840

Qy   858 AGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 917
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy   918 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 972
         ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901 AATGGCAGCCTGAGCAGCAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 5
US-09-909-088B-17

;  Sequence 17, Application US/09909088B
;  Patent No. US2002014679A1
;  GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William. I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION: Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/909,088B
;  CURRENT FILING DATE: 2001-07-18
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
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;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
;
;  SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;  US-09-909-088B-17

Query Match             98.1%;  Score 953.4;  DB 9;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 1.8e-249;
Matches  954;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy    18 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCTCGCAGCCACTGCCCTGCTGTGTCTA  77
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Db     1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCTCGCAGCCACTGCCCTGCTGTGTCTA  60

Qy    78 CTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTCGCAGGTGGAGAACTGCACCCAGCT 137
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 CTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTCGCAGGTGGAGAACTGCACCCAGCT 120

Qy   138 GGGGGAGCAGTGCTGACCGGCCCATCCGGGCAGTTGGCTCCTGACCCGTCATCAGCAA 197
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGCTGACCGGCCCATCCGGGCAGTTGGCTCCTGACCCGTCATCAGCAA 180

Qy   198 AGGCTGCAGCTTGAACTGCGTGGATGAGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 257
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTTGAACTGCGTGGATGAGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 240

Qy   258 CAGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGCGTGC 317
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGCGTGC 300

Qy   318 CGCCATCCTTGCGGCTGCTCCCTGCCACTGGGCTGTGTGCACCGGCCAGCTATA 377
         |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTGCGGCTGCTCCCTGCCACTGGGCTGTGTGCACCGGCCAGCTATA 360

Qy   378 GGGTCGGGGGGCCCCGCTGCAGCCCACTGGGAGCCTGTTCCTGAGGCACATCCTAACGCAA 437
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGGTCGGGGGGCCCCGCTGCAGCCCACTGGGAGCCTGTTCCTGAGGCACATCCTAACGCAA 420

Qy   438 TCCTCACAGACCTGCCCAGTGGGAGCCTCTAGTGACACCCTCTCCACCCTGACCCTCCTCCA 497
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCACAGACCTGCCCAGTGGGAGCCTCTAGTGACACCCTCTCCACCCTGACCCTCCTCCA 480

Qy   498 GTCTGACCATGTATGTCTGCACCCCGGCAGATCAGCTTCCCATGGGCCCTCTCCA 557
         |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 GTCTGACCATGTATGTCTGCACCCCGGCAGATCAGCTTCCCATGGGCCCTCTCCA 540

Qy   558 GGACTCCCACCCGGCAGATCCGGCCTCGCCTGCAGATGGCCCCTCCA 617
         |||||||||||||||||||||||||||||||||||||||||||||
Db   541 GGACTCCCACCCGGCAGATCCGGCCTCGCCTGCAGATGGCCCCTCCA 600

Qy   618 ACCCTCTGCTGCTGTTTCCATGGCCAGCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 677
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 ACCCTCTCTGCTGCTGTTTCCATGGCCAGCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 660
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Qy   678  ACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT  737
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661  ACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT  720

Qy   738  CCGTGGTGTGCCCCGCACCCAGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA  797
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721  CCGTGGTGTGCCCCGCACCCAGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA  780

Qy   798  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCCACGTGAGTTCCTGGGAGTCTCC  857
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCCACGTGAGTTCCTGGGAGTCTCC  840

Qy   858  AGAGATGGGGCCTTGGAGGCCTGGAGGAAGGGGCCAGGCCTCCACATTCGTGGGGCTCCCTG  917
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841  AGAGATGGGGCCTTGGAGGCCTGGAGGAAGGGGCCAGGCCTCCACATTCGTGGGGCTCCCTG  900

Qy   918  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAAACACCTGTTGGATAAGCCCA  972
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAAACACCTGTTGGATAAGCCAA  955
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RESULT 6
US-09-905-291A-17
; Sequence 17, Application US/09905291A
; Patent No. US2002016374A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-905-291A-17

Query Match   98.1%; Score 953.4; DB 9; Length 960;
Best Local Similarity   99.9%; Pred. No. 1.8e-249;
Matches 954; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Qy    18  GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCCAGGCACTGCCCTGCCTGTGCTA  77
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Db     1  GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCCAGGCACTGCCCTGCCTGTGCTA  60

Qy    78  CTCCTGCAAAGCCCAGGTGACAACGAGGACTGCCTGCAGGTGGAGAACTGACCACCAGCT  137
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Db    61  CTCCTGCAAAGCCCAGGTGACAACGAGGACTGCCTGCAGGTGGAGAACTGACCACCAGCT  120

Qy   138  GGGGGAGCAGTGCTGGACCGCGCCATCCGCGACAGTTGGCCTCCTGACGTCATCAGCAA  197
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121  GGGGGAGCAGTGCTGGACCGCGCCATCCGCGACAGTTGGCCTCCTGACCGTCATCAGCAA  180

Qy   198  AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  257
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Db   181  AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACTACGTGGGGCAAGAAGAACAT  240

Qy   258  CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCTGCAGCCGGCTGC  317
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Db   241  CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCTGCAGCCGGCTGC  300

Qy   318  CGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTGCTCGGCCCGGCCAGCTATA  377
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Db   301  CGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTGCTCGGCCCGGCCAGCTATA  360

Qy   378  GGCTCTGGGGGCCCCGCTGCAGCCCACACTGGGTGTGTGCCCAGGCCTCTGTGCCAC  437
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361  GGCTCTGGGGGCCCCGCTGCAGCCCACACTGGGTGTGTGCCCAGGCCTCTGTGCCAC  420

Qy   438  TCCTCACAGACCTGGCCCAGTGGAGCCTGTCTCCGGTTCCTGAGGCACATCCTAACGCAA  497
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421  TCCTCACAGACCTGGCCCAGTGGAGCCTGTCTCCGGTTCCTGAGGCACATCCTAACGCAA  480

Qy   498  GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTCGACCCTCCCCATGGCCCTCTCCA  557
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Db   481  GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTCGACCCTCCCCATGGCCCTCTCCA  540

Qy   558  GGACTCCCACCCGGCAGATCAGTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA  617
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Db   541  GGACTCCCACCCGGCAGATCAGTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA  600

Qy   618  ACCCTCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTAACCCTGTGCTCAGGC  677
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Db   601  ACCCTCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTAACCCTGTGCTCAGGC  660
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Qy    678  ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGACTTGAGCCAGTCTCGT  737
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Db    661  ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGACTTGAGCCAGTCTCGT  720

Qy    738  CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGTGA  797
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Db    781  GATGAAGTGACTGAGTAGTAGAACTGAGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  840

Qy    858  AGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  917
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Db    841  AGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  900

Qy    918  AATGGCAGCCTGAGCACAGCAGGCTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA  972
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RESULT 7
; US-09-902-853-17
; Sequence 17, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/902,853
;   CURRENT FILING DATE: 2001-07-10
;   PRIOR APPLICATION NUMBER: US/09/665,350
;   PRIOR FILING DATE: 2000-09-18
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089

;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
;   SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
; US-09-902-853-17

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Query Match             98.1%;     Score 953.4;  DB 9;   Length 960;
Best Local Similarity   99.9%;     Pred. No. 1.8e-249;
Matches   954;  Conservative   0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy     18  GCTGCTTGCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCAGGCACTGCCCTGCGTGCTGCTA  77
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1  GCTGCTTGCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCAGGCACTGCCCTGCGTGCTGCTA  60

Qy     78  CTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCTGCCAGGTGGAGAACTGCACCCAGCT  137
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61  CTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCTGCCAGGTGGAGAACTGCACCCAGCT  120

Qy    138  GGGGGAGCAGTGTGGACCGCGCATCCGCGCAGTTGGCTTCCTGACCGTCATCAGCAA  197
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy    198  AGGCTGCAGCTTGAACTGGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  257
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Db    181  AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  240

Qy    258  CACGTGCTGTGACACCGACTTGTGCAAGCCAGCGGGCCCATGCCTGCAGCCGGCTGC  317
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241  CACGTGCTGTGACACCGACTTGTGCAAGCCCAGCGGGCCCATGCCCTGCAGCCGGCTGC  300

Qy    318  CGCCATCCTTGCGCTGCTCCCTGCCACTCGGGCGGTGTGCCCAGGCCTCTGTGCCAC  377
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301  CGCCATCCTTGCGCTGCTCCCTGCCACTCGGCCGTGCTGTGCCCAGGCCTCTGTGCCAC  360

Qy    378  GGCTCTGGGGGCCCCGCTCGCAGCCACACTGGGTCCTGGTTCCTGAGGCACATCCTAACGCAA  437
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361  GGCTCTGGGGGGCCCGCTCGCAGCCACACTGGGTGTCCTGGTTCCTGAGGCACATCCTAACGCAA  420

Qy    438  TCCTCACAGACCTGGCCAGTGGAGCTGGCCTGTCCCCGTCCCCACCCTCCACCCTCTCCA  497
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421  TCCTCACAGACCTGGCCAGTGGAGCTGGCCTGTCCCCGTCCCCACCCTCCACCCTCTCCA  480

Qy    498  GTCTGACCATGTCTGCTGCTCTGACACCCCGTCCCCACCCGACCCTCCACCCTCGACCTCTCCA  557
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481  GTTGACCATGTATGTCTGCTGCTCTGACACCCCGTCCCCACCCGACCCTCCACCCTCTCCA  540

Qy    558  GGACTCCCACCCACAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCCTCCA  617
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541  GGACTCCCACCCACAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCCTCCA  600

Qy    618  ACCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC  677
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  ACCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC  660

Qy    678  ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGACTTGAGCCAGTCTCGT  737
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Db  661 ACCTCTTCCCCAGGAGGCCTTCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 720
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Qy  738 CCGTGGTGTCCCCGCACCCAGCAGGGACCAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 797
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Db  721 CCGTGGTGTCCCCGCACCCAGCAGGGACCAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy  798 GATGAAGTGGACTGAGTAGAACTGGAGCACAAGAGTCGACGTGAGTTCCTGGAGTCTCC 857
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  781 GATGAAGTGGACTGAGTAGAACTGGAGCACAAGAGTCGACGTGAGTTCCTGGAGTCTCC 840

Qy  858 AGAGATGGGGCCTGAGGCCTGGAGGAAGGGGCCAGGGGCCTCACATTCGTGGGGCTCCCTG 917
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  841 AGAGATGGGGCCTGAGGCCTGGAGGAAGGGGCCAGGGGCCTCACATTCGTGGGGCTCCCTG 900

Qy  918 AATGGCAGCCTGAGCACACGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 972
            ||||||||||||||||||||||||||||||||||||||||||||||||| |
Db  901 AATGGCAGCCTGAGCACACGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 8
US-09-907-824-17
; Sequence 17, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
;
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-907-824-17

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Query Match             98.1%;  Score 953.4;  DB 9;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 1.8e-249;
Matches  954;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy   18 GCTGCTTGCCCTGTTGATGGCAGCCTTGGCCTGCAGCCAGGCACTGCCTGCTGTGCTA 77
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Db    1 GCTGCTTGCCCTGTTGATGGCAGCCTTGGCCTGCAGCCAGGCACTGCCTGCTGTGCTA 60

Qy   78 CTCCTGCAAAGCCCAGGTGAGCAAGAGACTGCCTGCCAGGTGGAGAACTGCACCCAGCT 137
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Db   61 CTCCTGCAAAGCCCAGGTGAGCAAGAGACTGCCTGCCAGGTGGAGAACTGCACCCAGCT 120

Qy  138 GGGGGAGCAGTGCTGACCGCGGCCATCCCGCGCAGTTGGCCTTCCTGACCGTCATCAGCAA 197
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Db  121 GGGGGAGCAGTGCTGACCGCGGCCATCCCGCGCAGTTGGCCTTCCTGACCGTCATCAGCAA 180

Qy  198 AGGCTGCAGCTTGAACTGCTGGATGACTCACAGACTACGTGGGCAAGAAGAACAT 257
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Db  181 AGGCTGCAGCTTGAACTGCTGGATGACTCACAGACTACGTGGGCAAGAAGAACAT 240

Qy  258 CACGTGCTGTGACACCGACTTGTGCAACGCACTCGGCCTGCTCTGGGGACCCGGCTGC 317
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Db  241 CACGTGCTGTGACACCGACTTGTGCAACGCACTCGGCCTGCTCTGGGGACCCGGCTGC 300

Qy  318 CGCCATCCTTGCGCTGCTCTCCCCATCTGGGGTGTGGTGTCCCCAGGGCTCTGTGCCAC 377
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Db  301 CGCCATCCTTGCGCTGCTCTCCCCATCTGGGGTGTGGTGTCCCCAGGGCTCTGTGCCAC 360

Qy  378 GGCTCTGGGGGGCCCCGCTGCAGCCACACTGGGTGGTGCCCGGGGCCCCAGGGCCTCCCAC 437
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Db  361 GGCTCTGGGGGGCCCCGCTGCAGCCACACTGGGTGGTGCCCGGGGCCCCAGGGCCTCCCAC 420

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Db  421 TCCTCACAGACCTGGGAGCCCAGTGGGAGCACATCCTAACGCAA 480

Qy  498 GTCTGACCATGTATGTCTGCACCCCTGTCCCCAGACCCTCCATGGCCCTCTCCA 557
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Qy  558 GGACTCCACCCGGACAGATCAGCTCTAGTGACACAGATCGGCTCTGCAGATGGCCCCTCCA 617
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Db  541 GGACTCCACCCGGACAGATCAGCTCTAGTGACACAGATCGGCTCTGCAGATGGCCCCTCCA 600

Qy  618 ACCCTCTGCTGTTCCACGCCCAGCATTCCACCCCTTAACCCTGTGCTTCAGGC 677
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Db  601 ACCCTCTGCTGTTCCACGCCCAGCATTCCACCCCTTAACCCTGTGCTTCAGGC 660
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Qy   678  ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  737
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Db   661  ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  720

Qy   738  CCGTGGTGTCCCCGCACCCAGCAGGGACACTCAGGAGGAGGCCCAGTAAAGGCTGA  797
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721  CCGTGGTGTCCCCGCACCCAGCAGGGACACTCAGGAGGAGGCCCAGTAAAGGCTGA  780

Qy   798  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  857
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Db   781  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  840

Qy   858  AGAGATGGGGCCCTGGAGGGGGCCAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  917
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841  AGAGATGGGGCCCTGGAGGGGGCCAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  900

Qy   918  AATGGCAGCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGATAAGCCCA  972
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901  AATGGCAGCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGATAAGCCAA  955
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RESULT 9
US-09-907-841-17

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  Query Match             98.1%;  Score 953.4;  DB 9;  Length 960;
  Best Local Similarity   99.9%;  Pred. No. 1.8e-249;
  Matches  954;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy    18  GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGCACTGCCCTGCTGTGCTA   77
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Db     1  GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGCACTGCCCTGCTGTGCTA   60

Qy    78  CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCCAGGTGGAGAACTGCACCCAGCT  137
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61  CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCCAGGTGGAGAACTGCACCCAGCT  120

Qy   138  GGGGGAGCAGTGCTGGCACCGGCGCATCCGGCGCAGTTGGCCTCCTGACCGGTCATCAGCAA  197
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121  GGGGGAGCAGTGCTGGCACCGGCGCATCCGGCGCAGTTGGCCTCCTGACCGGTCATCAGCAA  180

Qy   198  AGGCTGAGCTTGAACTGCGTGGATGACTCACAGGACTACAGGTGGGCAAGAGAAACAT  257
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181  AGGCTGAGCTTGAACTGCGTGGATGACTCACAGGACTACAGGTGGGCAAGAGAAACAT  240

Qy   258  CAGCTGTGTGACACCGACTTGTGCAACGCCAGCGGGGCCATGCCTGCGAGCGCGGCTGC  317
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241  CAGCTGTGTGACACCGACTTGTGCAACGCCAGCGGGGCCATGCCTGCGAGCGCGGCTGC  300

Qy   318  CGGCATCCTTGGGCTGCTCCCCGCCTGCGCCCACTCGGCTGGGGTGGTGCGCCCAGGCCTTCGTGTGCCAC  377
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301  CGGCCATCCTTGGGCTGCTCCCCGCCTGCGCCCACTCGGCTGGGGTGGTGCGCCCAGGCCTTCGTGTGCCAC  360

Qy   378  GGCTCTGGGGGCCCCGGCTGAGCCCACACTGGGCTGGGTGGCCCAGGCACATCTAACGCAA  437
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361  GGCTCTGGGGGCCCCGGCTGAGCCCACACTGGGCTGGGTGGCCCAGGCACATCTAACGCAA  420

Qy   438  TCCTCACAGACCTGGCCCAGTGGAGCCGTGCTGTCCTGTGTTCCTGAGGCACATCCTAACGCAA  497
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421  TCCTCACAGACCTGGCCCAGTGGAGCCGTGCTGTCCTGTGTTCCTGAGGCACATCCTAACGCAA  480

Qy   498  GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCATGCCCTCTCCA  557
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481  GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCATGCCCTCTCCA  540

Qy   558  GGACTCCCACCCGGCCAGATCAGCTCTAGTGACAGCAGCTCGACCCTGCCAGATGGCCCCTCCA  617
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541  GGACTCCCACCCGGCCAGATCAGCTCTAGTGACAGCAGCTCGACCCTGCCAGATGGCCCCTCCA  600

Qy   618  ACCCTCTCGTCTGCTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTCTCAGGC  677
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601  ACCCTCTCGTCTGCTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTCTCAGGC  660

Qy   678  ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  737
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661  ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  720

Qy   738  CCGTGGTGTCCCCGCACCCAGCAGGGACACTCAGGAGGAGGCCCAGTAAAGGCTGA  797
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721  CCGTGGTGTCCCCGCACCCAGCAGGGACACTCAGGAGGAGGCCCAGTAAAGGCTGA  780

Qy   798  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  857
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  840

Qy   858  AGAGATGGGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  917
          |||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Db   841  AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG   900
                                                                       
Qy   918  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA        972
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA        955
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RESULT 10
US-09-904-011-17

; Sequence 17, Application US/09904011
; Publication No. US2003003530A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-904-011-17

Query Match   98.1%; Score 953.4; DB 10; Length 960;
Best Local Similarity   99.9%; Pred. No. 1.8e-249;
Matches 954; Conservative   0; Mismatches   1; Indels   0; Gaps   0;
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Qy     18  GCTGCTTGCCCTGTTGATGGCAGGTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA   77
           |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db      1  GCTGCTTGCCCTGTTGATGGCAGGTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA   60

Qy     78  CTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT  137
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61  CTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT  120

Qy    138  GGGGGAGCAGTGCTGACACCCGCGACCCGGCAGTTGGCCTCCTGACCGTCATCAGCAA   197
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121  GGGGGAGCAGTGCTGACACCCGCGACCCGGCAGTTGGCCTCCTGACCGTCATCAGCAA   180

Qy    198  AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACGTGGGCAAGAAGAACAT   257
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181  AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACGTGGGCAAGAAGAACAT   240

Qy    258  CACGTGCTGTGACACCGACTTGTCAACGCCCATGCCCTGCAGCCGGCTGC   317
           ||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241  CACGTGCTGTGACACCGACTTGTCAACGCCCATGCCCTGCAGCCGGCTGC   300

Qy    318  CGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTCGCTGCTGTCTGGGGACCCGCAGCTATA  377
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301  CGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTCGCTGCTGTCTGGGGACCCGCAGCTATA  360

Qy    378  GGCTCTGGGGCGCCCCGCTGCAGCGGGGGCTGTGGTGGTGCCCAGGCCTCTGTGCCAC  437
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361  GGCTCTGGGGCGCCCCGCTGCAGCGGGGGCTGTGGTGGTGCCCAGGCCTCTGTGCCAC  420

Qy    438  TCCTCACAGACCTGGCCCAGTGGAGGCCTGTGGTTCCTGAGCACATCCTAACGCAA   497
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421  TCCTCACAGACCTGGCCCAGTGGAGGCCTGTGGTTCCTGAGCACATCCTAACGCAA   480

Qy    498  GTCTGACCATGTATGTCTGAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCTCCA  557
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481  GTCTGACCATGTATGTCTGAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCTCCA  540

Qy    558  GGACTCCACCGCAGATCAGCTCTAGTGACTCAGATCCGCCTGCAGATGGCCCTCTCCA  617
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541  GGACTCCACCGCAGATCAGCTCTAGTGACTCAGATCCGCCTGCAGATGGCCCTCTCCA  600

Qy    618  ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTGTCAGGC  677
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTGTCAGGC  660

Qy    678  ACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCAGCAGGGACACTCAGGAGGGCCAGTAAAGGCTGA  737
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661  ACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCAGCAGGGACACTCAGGAGGGCCAGTAAAGGCTGA  720

Qy    738  CCGTGGTGTCCCCCGCACTCGAGGACCAGGGACAGGGACACTCGACGTCGGAGTCTCC  797
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721  CCGTGGTGTCCCCCGCACTCGAGGACCAGGGACAGGGACACTCGACGTCGGAGTCTCC  780

Qy    798  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTCGACGTGAGTTCCTGGGAGTCTCC  857
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTCGACGTGAGTTCCTGGGAGTCTCC  840

Qy    858  AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  917
```

```
Db    841  AGAGATGGGCGCTGGAGGCCTGGAGGAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  900
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Qy    918  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA  972
                |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATTAAACACCTGTTGGATAAGCCAA  955
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RESULT 11
US-09-906-742-17
; Sequence 17, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,742
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-906-742-17

Query Match   98.1%; Score 953.4; DB 10; Length 960;
Best Local Similarity   99.9%; Pred. No. 1.8e-249;
Matches 954; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy     18  GTGCTTGCCTGTTGATGGCAGGCTTGGCCTGCAGCCCTGCGCAGCCACTGCACCCAGCT   77
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1  GTGCTTGCCTGTTGATGGCAGGCTTGGCCTGCAGCCCTGCGCAGCCACTGCCCTGCGTGCTA   60

Qy     78  CTCCTGCAAAGCCCAGGTGGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT  137
               ||||||| |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61  CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT  120

Qy    138  GGGGGAGCAGTGCTGGACCGGCGCATCCGGCAGTTGGCCTCCTGACCGTCATCAGCAA  197
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121  GGGGGAGCAGTGCTGGACCGGCGCATCCGGCAGTTGGCCTTCCTGACCGTCATCAGCAA  180

Qy    198  AGGCTGCGAGCTTGAACTGCGTGGATGACTCAGAGGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  257
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181  AGGCTGCGAGCTTGAACTGCGTGGATGACTCAGAGGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  240

Qy    258  CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGCCCATGCCCAGCGGCCGGCTGC  317
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241  CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGCCCATGCCCAGCGGCCGGCTGC  300

Qy    318  CGCCATCCTTGCGCGTGCTCCCTGCACTCGGCCTGCTGCTCCTGCTGTCTGGGACCGGCCAGCTATA  377
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301  CGCCATCCTTGCGCGTGCTCCCTGCACTCGGCCTGCTGCTCCTGCTGTCTGGGACCGGCCAGCTATA  360

Qy    378  GGCTCTGGGGGGCCCCGTGCCAGCCACCACTGGGTGGTGCCCAGGCCTCTGTGCCAC  437
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361  GGCTCTGGGGGGCCCCGTGCCAGCCACCACTGGGTGGTGCCCAGGCCTCTGTGCCAC  420

Qy    438  TCCTCACAGACCTGGCCCAGTGGGAGCCTGCCTGGCCTGGGAGCCTGGTTCCTGAGGCACATCCTAACGCAA  497
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421  TCCTCACAGACCTGGCCCAGTGGGAGCCTGCCTGGGAGCCTGGTTCCTGAGGCACATCCTAACGCAA  480

Qy    498  GTTGACCATGTATGTCTGCACCCCTGTCCCACCCTGACCCTCGCTCGCAGGCCCTCCA  557
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481  GTTGACCATGTATGTCTGCACCCCTGTCCCACCCTGACCCTCCACCGGCCCTCCA  540

Qy    558  GGACTCCCACCCGGCAGATCAGCCTAGTGACACAGATCCGCTCGCAGATGGCCCCTCCA  617
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541  GGACTCCCACCCGGCAGATCAGCTCAGTGACACAGATCCGCTCGCAGATGGCCCCTCCA  600

Qy    618  ACCCTCTGCGTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGTGCTGCTCAGGC  677
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  ACCCTCTGCGTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTGCTCAGGC  660

Qy    678  ACCTCTTCCCCAGGAAGCCTTCCTGCCACCCGACTCAGGGGACCAGGACTCAGGGAGGGCCCAGTAAAGGCTGGT  737
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661  ACCTCTTCCCCAGGAAGCCTTCCTGCCACCCCATCTATGACTCAGGGGACTCAGGGAGGGGCCCAGTAAAGGCTGGT  720

Qy    738  CCGGTGGTGTCCCCCGACCCAGCAGGGGGACTCAGGAGGGACAAGAGTCGACGTGAGTTCTGGGAGTCTGA  797
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721  CCGGTGGTGTCCCCCGCACCCCAGCAGGGGACAGGACACTCAGGAGGGACAAGAGTCGACGTGAGTTCTGGGAGTAAAGGCTGA  780

Qy    798  GATGAAGTCGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  857
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781  GATGAAGTCGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  840
```

```
Qy   858 AGAGATGGGGCCTGGAGGCCTGGAGGAGGGGGCCAGGCCTCCACATTCGTGGGGCTCCCTG 917
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AGAGATGGGGCCTGGAGGCCTGGAGGAGGGGGCCAGGCCTCCACATTCGTGGGGCTCCCTG 900

Qy   918 AATGCCAGCCTGAGCACAGCCGTAGGCCCCTTAATAAACACCTGTTGGATAAGCCAA 972
         |||||||||||||||||||||||||||||| |||||||||||||||||||||||||
Db   901 AATGCCAGCCTGAGCACAGCCGTAGGCCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 12
US-09-906-838-17
; Sequence 17, Application US/09906838
; Publication No. US20030027143A1
; GENERAL INFORMATION:

;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.

;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/906,838
;   CURRENT FILING DATE: 2001-07-16
;   PRIOR APPLICATION NUMBER: 09/665,350
;   PRIOR FILING DATE: 2000-09-18
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423

;   SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien

US-09-906-838-17

Query Match   98.1%; Score 953.4; DB 10; Length 960;
Best Local Similarity 99.9%; Pred. No. 1.8e-249;
Matches 954; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy    18 GCTGCTTGCCCTGTTGATGGCGAGGCTTGGCCCTGCAGCCCTGCAGCCACTGCACCCAGCT 77
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1 GCTGCTTGCCCTGTTGATGGCGAGGCTTGGCCCTGCAGCCCTGCAGCCACTGCACCCAGCT 60

Qy    78 CTCCTGCAAAGCCAGTGAGCAACGAGACTGCCTGCAGGTGAGGAACTGCACCCAGCT 137
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 CTCCTGCAAAGCCAGTGAGCAACGAGACTGCCTGCAGGTGAGGAACTGCACCCAGCT 120

Qy   138 GGGGGAGCAGTGCTGACACCCGCGCATCCCGCGCCAGTGGCCTCTTGACCGTCATCAGCAA 197
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGCTGACACCCGCGCATCCCGCGCCAGTGGCCTCTTGACCGTCATCAGCAA 180

Qy   198 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 257
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 240

Qy   258 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCTCCAGCCGGCTGC 317
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCTCCAGCCGGCTGC 300

Qy   318 CGCCATCCTTGCGCTCCCTGCCACTCGGCTGCTGGTGGTGCCCAGGCCTCTGTGCCAC 377
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTGCGCTCCCTGCCACTCGGCTGCTGGTGGTGCCCAGGCCTCTGTGCCAC 360

Qy   378 GGCTCTGGGGGGCCCCGCTGAGCCCTGTTCCTGGGAGCCTGCACATCCTAACGCAA 437
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTCTGGGGGGCCCCGCTGAGCCCTGTTCCTGGGAGCCACATCCTAACGCAA 420

Qy   438 TCCTCACAGACCTGGCCCAGTGGGAGCCTGTTCCTGGGAGCCACTCCATGCGCCCTCCA 497
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCACAGACCTGGCCCAGTGGGAGCCTGTTCCTGGGAGCCACTCCATGCGCCCTCCA 480

Qy   498 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCCTCCCATGGCCCCTCCA 557
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCCTCCCATGGCCCCTCCA 540

Qy   558 GGACTCCACCCGGCAGATCAGCTTAGTGACACAGATCCGCTGCAGATGGCCCCTCCA 617
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 GGACTCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGCCCCTCCA 600

Qy   618 ACCCTCTGCTGCGTGTTTCATGGCCAGCATTCCCACCCTTAACCCTGCTCAGGC 677
            |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 ACCCTCTGCTGCGTGTTTCATGGCCAGCATTCCCACCCTTAACCCTGTCTCAGGC 660

Qy   678 ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCAGCACTCAGGAGGGCCCAGTAAGGCTGGT 737
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCAGCACTCAGGAGGGCCCAGTAAGGCTGGT 720

Qy   738 CCGTGGTGTCCCCGCCACCAGCAGGGACAGGGGACACTCAGGAGGGGCACTCAGGAGGGACTGA 797
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 CCGTGGTGTCCCCGCCACCAGCAGGGACAGGGGACACTCAGGAGGGACTGA 780

Qy   798 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGGAGTCCTGGGAGTCTCC 857
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGGAGTCCTGGGAGTCTCC 840
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Qy    858  AGAGATGGGGCCTGAGGCCTGAGGAAGGGGCAGGCCTCACATTCGTGGGGCTCCCTG  917
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841  AGAGATGGGGCCTGAGGCCTGAGGAGGAAGGGGCAGGCCTCACATTCGTGGGGCTCCCTG  900

Qy    918  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA  972
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA  955
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RESULT 13
US-09-907-613-17

; Sequence 17, Application US/09907613
; Publication No. US2003002714 5A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Godard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,613
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-613-17

Query Match   98.1%; Score 953.4; DB 10; Length 960;
Best Local Similarity   99.9%; Pred. No. 1.8e-249;
Matches 954; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Qy    18  GCTGCTTGCCCTGTGATGGCAGGCTTGCCCTGCAGCCAGGCACTGCCTGCCTGCTGTGCTA   77
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1  GCTGCTTGCCCTGTTGATGGCAGGCTTGCCCTGCAGCCAGGCACTGCCTGCCTGCTGTGCTA   60

Qy    78  CTCCTGCAAAGCCAGTGAGCAACGAGGACTGCCTGCCCAGGTGGAGAACTGCACCCAGCT  137
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61  CTCCTGCAAAGCCAGTGAGCAACGAGGACTGCCTGCCCAGGTGGAGAACTGCACCCAGCT  120

Qy   138  GGGGGAGCAGTGCTGGACCGGCGCCATCCGGCCCAGTTGGCCTCCTGACCGTCATCAGCAA  197
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121  GGGGGAGCAGTGCTGGACCGGCGCCATCCGGCCCAGTTGGCCTCCTGACCGTCATCAGCAA  180

Qy   198  AGGGTCGCAGCTTGAACTGCGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  257
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181  AGGGTCGCAGCTTGAACTGCGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  240

Qy   258  CAGGTGCTGTGACACCGACTTGTCAACGCCAGCGGGCCCATGCCTGCAGCCGGCTGC  317
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241  CAGGTGCTGTGACACCGACTTGTCAACGCCAGCGGGCCCATGCCTGCTGCAGCCGGCTGC  300

Qy   318  CGCCATCCTTGCCTGCTCCCTGCACTCGGCCTGGTGTGCCCAGGCCTTCTGTGCCAC  377
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301  CGCCATCCTTGCCTGCTCCCTGCACTCGGCCTGGTGTGCCCAGGCCTTCTGTGCCAC  360

Qy   378  GGCTCTGGGGGCCCCGTCAGCCAACACTGGGTGTGTGCCCAGGCACATCCTAACGCAA  437
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361  GGCTCTGGGGGCCCCGTCAGCCAACACTGGGTGTGTGCCCAGGCACATCCTAACGCAA  420

Qy   438  TCCTCACAGACCTGCCCAGTGGAGCCTCCTGGTTCCTGAGGCACATCCTAAGCGACTCAACGCAA  497
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421  TCCTCACAGACCTGCCCAGTGGGAGCCTGCTCCTGGTTCCTGAGGCACATCCTAAGCGACTCAACGCAA  480

Qy   498  GTCTGACCATGTATGTCTGCACCCCGTCCCACCCCATGGCCCTCTCCA  557
              |||||||||||||||||||||||||||||||||||||||||||||||||
Db   481  GTCTGACCATGTATGTCTGCACCCCGTCCCACCCCATGGCCCTCTCCA  540

Qy   558  GGACTCCACCCGCCGAGATCAGTCTTAGTGACAGCAGATCCGCCTGCAGATGGCCCCTCCA  617
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541  GGACTCCACCCGCCAGATCAGCTTAGTGACAGCAGATCCGCCTGCAGATGGCCCCTCCA  600

Qy   618  ACCCTCTCTGCTCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGTGCTCGTCAGGC  677
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601  ACCCTCTCTGCTCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGTGCTCGTCAGGC  660

Qy   678  ACCTCTTCCCCAGGAAAGCTTCCTGCCCATCTATGACTTGAGCCAGTCTCGGT  737
              |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661  ACCTCTTCCCCAGGAAAGCTTCCTGCCCATCTATGACTTGAGCCAGTCTCGGT  720

Qy   738  CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA  797
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721  CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA  780

Qy   798  GATGAAGTGGACTGAGTAGAACTGGAGAGACAAGAGTCGACGTGAGTCTCGGGAGTCTCC  857
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Db   781  GATGAAGTGGACTGAGTAGAACTGGAGAGACAAGAGTCGACGTGAGTCTCGGGAGTCTCC  840
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Qy    858  AGAGATGGGCCTGGAGGCCTGGAGGAGGGGCCAGGCCTCCACATTCGTGGGCGCTCCCTG  917
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841  AGAGATGGGCCTGGAGGCCTGGAGGAGGGGCCAGGCCTCCACATTCGTGGGCGCTCCCTG  900

Qy    918  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA  972
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA  955
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RESULT 14
US-09-907-942-17
; Sequence 17, Application US/09907942
; Publication No. US20030027146A1
; GENERAL INFORMATION:
;　APPLICANT: Genentech, Inc.
;　APPLICANT: Ashkenazi, Avi
;　APPLICANT: Botstein, David
;　APPLICANT: Desnoyers, Luc
;　APPLICANT: Eaton, Dan L.
;　APPLICANT: Ferrara, Napoleone
;　APPLICANT: Filvaroff, Ellen
;　APPLICANT: Fong, Sherman
;　APPLICANT: Gao, Wei-Qiang
;　APPLICANT: Gerber, Hanspeter
;　APPLICANT: Gerritsen, Mary E.
;　APPLICANT: Goddard, A.
;　APPLICANT: Godowski, Paul J.
;　APPLICANT: Grimaldi, Christopher J.
;　APPLICANT: Gurney, Austin L.
;　APPLICANT: Hillan, Kenneth, J.
;　APPLICANT: Kljavin, Ivar J.
;　APPLICANT: Mather, Jennie P.
;　APPLICANT: Pan, James
;　APPLICANT: Paoni, Nicholas F.
;　APPLICANT: Roy, Margaret Ann
;　APPLICANT: Stewart, Timothy A.
;　APPLICANT: Tumas, Daniel
;　APPLICANT: Williams, P. Mickey
;　APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,942
; CURRENT FILING DATE: 2002-01-22
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;　LENGTH: 960
;　TYPE: DNA
;　ORGANISM: Homo sapiens
US-09-907-942-17

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Query Match             98.1%;  Score 953.4;  DB 10;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 1.8e-249;
Matches  954;  Conservative   0;  Mismatches   0;  Indels   1;  Gaps   0;

Qy     18  GCTGCTGCCCTGTTGATGGAGGCTTGGCCTGCCCTGCAGGCACTGCCTGCTGTGCTA   77
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1  GCTGCTGCCCTGTTGATGGAGGCTTGGCCTGCCCTGCAGGCACTGCCTGCTGTGCTA   60

Qy     78  CTCCTGCAAAGCCCAGGTGAGCAACGAGACTGCTGCAGTGGAGAACTGCACCCAGCT  137
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61  CTCCTGCAAAGCCCAGGTGAGCAACGAGACTGCTGCAGTGGAGAACTGCACCCAGCT  120

Qy    138  GGGGGAGCAGTGCTGACCGCGCGCGGCATCCGCGCGCGGCTCCTGACCGTCATCAGCAA  197
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121  GGGGGAGCAGTGCTGACCGCGCGCGGCATCCGCGCGCGGCTCCTGACCGTCATCAGCAA  180

Qy    198  AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAGAACAT  257
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181  AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAGAACAT  240

Qy    258  CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCTGAGCCGGCTGC  317
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241  CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCTGAGCCGGCTGC  300

Qy    318  CGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTCGGGGACCCGCCAGCTATA  377
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301  CGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTCGGGGACCCGCCAGCTATA  360

Qy    378  GGCTCTGGGGGGCCCCGCTGCAGCCCACCACTGGGTGTGGTGCCCCAGGCCTCGTGCCAC  437
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361  GGCTCTGGGGGGCCCCGCTGCAGCCCACCACTGGGTGTGGTGCCCCAGGCCTCGTGCCAC  420

Qy    438  TCCTCACAGACTGGCCAGTGGGAGCCTGTTCCTGGTTCCTGAGGCACATCCTAACGCAA  497
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421  TCCTCACAGACTGGCCAGTGGGAGCCTGTTCCTGGTTCCTGAGGCACATCCTAACGCAA  480

Qy    498  GTCTGACCATGTATGTCGCACCCCGTCCCCGACCCTCCATGGCCCTCTCCA  557
               |||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481  GTCTGACCATGTATGTCGCACCCCGTCCCCGACCCTCCATGGCCCTCTCCA  540

Qy    558  GGACTCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTCGAGATGGCCCCTCCA  617
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541  GGACTCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTCGAGATGGCCCCTCCA  600

Qy    618  ACCCTCTGCGCTGTGTTCCATGGCCAGAAGCCTTCCCTGCCACCCATCTATGACTTGAGCCAGGTCTGGT  677
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  ACCCTCTGCGCTGTGTTCCATGGCCAGAAGCCTTCCCTGCCACCCATCTATGACTTGAGCCAGGTCTGGT  660

Qy    678  ACCTCTTCCCCCAGGAGAGCCACTCCAGCAGGGACAGGCAGCAGGGCACTCAGGAGGGCCAGTAAAGGCTGA  737
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661  ACCTCTTCCCCCAGGAGAGCCACTCCAGCAGGGACAGGCAGCAGGGCACTCAGGAGGGCCAGTAAAGGCTGA  720

Qy    738  CCGTGGTGTCCCCGCACCCAGGGACAGGGACAGGGACACCAGAAGAGTCGAGGTTCCTGGGAGTCTCC  797
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721  CCGTGGTGTCCCCGCACCCAGGGACAGGGACAGGGACACCAGAAGAGTCGAGGTTCCTGGGAGTCTCC  780

Qy    798  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGAAGTCGAGGTTCCTGGGAGTCTCC  857
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGAAGTCGAGGTTCCTGGGAGTCTCC  840

Qy    858  AGAGATGGGCCTGGAGGCCTGGAGGAGGGGCCAGGCCTCCACATTCGTGGGCGCTCCCTG  917
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Db    841  ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
           AGAGATGGGGCCTGAGCGACACAGCGGTAGGCGTAGGCGGCCTCACATTCGTGGGGCTCCCTG  900

Qy    918  AATGGCAGCTGAGCACAGCGGCCCCTTAATAAACACCTGTTGGATAAGCCCA  972
           |||||||||||||||||||||| ||||||||||||||||||||||||||||| |
Db    901  AATGGCAGCCTGAGCACAGCGGCCCTTAATAAACACCTGTTGGATAAGCCAA  955
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RESULT 15
US-09-904-859-17
; Sequence 17, Application US/09904859
; Publication No. US20030036060A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/904,859
;   CURRENT FILING DATE: 2001-07-12
;   PRIOR APPLICATION NUMBER: 09/665,350
;   PRIOR FILING DATE: 2000-09-18
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-904-859-17

Query Match   98.1%;   Score 953.4; DB 10;   Length 960;
Best Local Similarity   99.9%;   Pred. No. 1.8e-249;
Matches 954;   Conservative   0;   Mismatches   0;   Indels   1;   Gaps   0;

Qy   18 GCTGCTTGCCCTGTTGATGGCAGGCTGGCCCTGCAGCCAGCCAGCCACTGCCCCTGCTGCTGCTA   77
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGCCAGCCACTGCCCCTGCTGCTGCTA   60

Qy   78 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 137
           |||||||||||||||||||||| ||||||||||||||||||||||||||||||||||||||
Db   61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy   138 GGGGGAGCAGTGCTGGACCGGCGCATCCGCGCAGTTGGCTTCCTGACCGTCATCAGCAA 197
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGCTGGACCGGCGCATCCGCGCAGTTGGCTTCCTGACCGTCATCAGCACA 180

Qy   198 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACTGTGGGCAAGAAGAACAT 257
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACTGTGGGCAAGAAGAACAT 240

Qy   258 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCAGCCGCCGGCTGC 317
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCAGCCGCCGGCTGC 300

Qy   318 CGCCATCTTGCGCTGCTCCCTGCACTCGGCCTGCTCCTGCACTCGGCCTGGGGACCCGGCCAGCTATA 377
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCTTGCGCTGCTCCCTGCACTCGGCCTGCTCCTGCACTCGGCCTGGGGACCCGGCCAGCTATA 360

Qy   378 GGGCTGCTGGGGGGCCCCGCTCAGCCACACTGGTGGTGTGCCCAGGCCTCTGTGCCAC 437
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTCTGGGGGGGGCCCCGCTCAGCCACACTGGTGGTGTGCCCAGGCCTCTGTGCCAC 420

Qy   438 TCCTCACAGACCTGGCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 497
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCACAGACCTGGCCCAGTGGGGAGCCTGTCCTGGTTCCTGAGCGCACATCCTAACGCAA 480

Qy   498 GTCTGACCATGTATGTCTGCAACCCTGTCCCCACCCTGCTCTAGTGACACAGATCAGCTTCCA 557
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy   558 GGACTCCCACCCCGGCAGATCAGCTCTAGTGACATCCGCTGCAGATGGCCCCTCCA 617
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 GGACTCCCACCCCGGCAGATCAGCTCTAGTGACATCCGCTGCAGATGGCCCCTCCA 600

Qy   618 ACCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 677
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 ACCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 660

Qy   678 ACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGTCTCGGT 737
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 ACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGTCTCGGT 720

Qy   738 CCGTGGTGTCCCCCGCCACTCAGGGGACCAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 797
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 CCGTGGTGTCCCCCGCCACCCAGGGGACCAGGGGACCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy   798 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCAGCGTCGACGTGGGGAGTCTCC 857
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGGGGAGTCTCC 840
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```
Qy   858 AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 917
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AGAGATGGGGCCTGGAGGCCTGGAGGAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy   918 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 972
             ||||||||||||||||||||||||||||||||||||||||||||||||
Db   901 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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Search completed: September 18, 2004, 20:20:27
Job time : 730.466 secs

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          GenCore version 5.1.6
          Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:   September 18, 2004, 05:54:35 ; Search time 4444.86 Seconds
                                         (without alignments)
                        6530.246 Million cell updates/sec

Title:         US-09-079-874-11
Perfect score: 972
Sequence:      1 GTGACCATGAAGGCTGTGCT.........ACACCTGTTGGATAAGCCCA 972

Scoring table: IDENTITY_NUC
               Gapop 10.0 , Gapext 1.0

Searched:      2751289 seqs, 1493109027  residues

Total number of hits satisfying chosen parameters:    55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :    EST:*
          1:  em_estba.:*
          2:  em_esthum.:*
          3:  em_estin.:*
          4:  em_estmu:*
          5:  em_estov:*
          6:  em_estpl:*
          7:  em_estro:*
          8:  em_htc:*
          9:  gb_est1:*
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         12:  gb_est3:*
         13:  gb_est4:*
         14:  gb_est5:*
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         16:  em_estom:*
         17:  em_gss_hum:*
         18:  em_gss_inv:*
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         23:  em_gss_mus:*
         24:  em_gss_pro:*
         25:  em_gss_rod:*
         26:  em_gss_phg:*
         27:  em_gss_vrl:*
         28:  gb_gssl:*
         29:  gb_gss2:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	DB ID		Description
1	970.4	99.8	1024	8	BC023582	BC023582 Homo sapi
2	949.4	97.7	990	11	BC048808	BC048808 Homo sapi
3	902.2	92.8	1009	13	BU168445	BU168445 AGENCOURT
4	827.6	85.1	911	13	BU194301	BU194301 AGENCOURT

No.		Score	%Match			DB ID	Accession
5		769.6	79.2	922	13	BU168360	BU168360 AGENCOURT
6		758	78.0	924	13	BQ678675	BQ678675 AGENCOURT
7		741.8	76.3	972	12	BM018834	BM018834 603646752
8		734	75.5	957	13	BQ876328	BQ876328 AGENCOURT
9		732.6	75.4	827	12	BM018750	BM018750 603646652
10		723.2	74.4	749	12	BM042052	BM042052 603616054
11		715	73.6	901	13	BU173702	BU173702 AGENCOURT
12	c	706.4	72.7	743	12	BM980213	BM980213 UI-CF-EN1
13		702	72.2	735	12	BM041997	BM041997 603615880
14		694.4	71.5	936	13	BU174241	BU174241 AGENCOURT
15	c	691.4	71.1	738	12	BM980194	BM980194 UI-CF-EN1
16	c	688.2	70.8	738	12	BM980828	BM980828 UI-CF-EN1
17		686.4	70.6	970	13	BU179764	BU179764 AGENCOURT
18		686.4	70.6	748	12	BG765417	BG765417 602738887
19		666.4	68.6	700	13	BU621296	BU621296 UI-H-FL1-
20	c	662.6	68.2	682	14	CB850631	CB850631 UI-CF-EN1
21	c	656	67.5	924	13	BU174317	BU174317 AGENCOURT
22		649.8	66.9	820	14	CB996183	CB996183 AGENCOURT
23		642.6	66.1	692	12	BG761095	BG761095 602717425
24		629.4	64.8	843	14	CB997275	CB997275 AGENCOURT
25	c	609	62.7	682	12	BM042219	BM042219 603616172
26	c	591	60.8	592	12	BM783852	BM783852 K-EST0061
27		573.4	59.0	599	12	BQ019300	BQ019300 UI-H-DT1-
28	c	559.4	57.6	781	12	BM042696	BM042696 603616054
29		551	56.7	571	12	BI763933	BI763933 603049810
30		529.8	54.5	550	14	CB147558	CB147558 K-EST0203
31		528.4	54.4	547	12	BM828076	BM828076 K-EST0100
32		517.2	53.2	851	14	CB993163	CB993163 AGENCOURT
33		514.6	52.9	571	12	BI763453	BI763453 603047463
34	c	489	50.3	490	9	AI139599	AI139599 qc57d11.x
35	c	488.8	50.3	548	14	N32011	N32011 yw96a06.s1
36	c	487.8	50.2	508	10	AW205435	AW205435 UI-H-BI1-
37	c	484.8	49.9	503	9	AA446964	AA446964 zw85f03.s
38		483.8	49.8	642	12	BI253841	BI253841 602974614
39	c	482.6	49.7	549	14	N32614	N32614 yw95e06.s1
40		480.4	49.4	531	12	BI761129	BI761129 603043613
41	c	477	49.1	503	12	BM975759	BM975759 UI-CF-EN1
42		476	49.0	527	12	BQ083498	BQ083498 K-EST0146
43	c	473.8	48.7	517	9	AI677792	AI677792 wc80d09.x
44		472.8	48.6	523	12	BI759495	BI759495 603046876
45	c	461.8	47.5	510	9	AA525838	AA525838 ni93a06.s

ALIGNMENTS

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RESULT 1
BC023582
ID   BC023582      standard; mRNA; HTC; 1024 BP.
XX
AC   BC023582;
XX
SV   BC023582.1
XX
DT   01-NOV-2002 (Rel. 73, Created)
DT   05-MAR-2003 (Rel. 75, Last updated, Version 3)
XX
DE   Homo sapiens, Similar to prostate stem cell antigen, clone IMAGE:4840974,
DE   mRNA.
XX
KW   HTC.
XX
OS   Homo sapiens (human)
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC   Eutheria; Primates; Catarrhini; Hominidae; Homo.
XX
RN   [1]
RC   NIH-MGC Project URL: http://mgc.nci.nih.gov
RP   1-1024
RA   Strausberg R.;
RT   ;
RL   Submitted (05-FEB-2002) to the EMBL/GenBank/DDBJ databases.
RL   National Institutes of Health, Mammalian Gene Collection (MGC), Cancer
```

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Qy    361  GGACCCGGCCAGCTATAGGCTTCTGGGGGGCCCCGCTTGCAGCCCACACTGGGTGTGGTGCC  420
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Db    370  GGACCCGGCCAGCTATAGGCTTCTGGGGGGCCCCGCTTGCAGCCCACACTGGGTGTGGTGCC  429

Qy    421  CCAGGGCCTCTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGACCTGTCCTGGTTCCTGA  480
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    430  CCAGGGCCTCTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGACCTGTCCTGGTTCCTGA  489

Qy    481  GGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCC     540
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    490  GGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCC     549

Qy    541  TCCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCAGTGACACAGATCCGCC     600
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    550  TCCCATGGCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCAGTGACACAGATCCGCC     609

Qy    601  TGCAGATGGCCCCTCCAACCCTCTGTGTTCCATGGCCCAGCATTCTCCACCCT          660
           |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    610  TGCAGATGGCCCCTCCAACCCTCTGTGTTCCATGGCCCAGCATTCTCCACCCT          669

Qy    661  TAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAAGCCTTCCTGCCCAGCCATCTATGA     720
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    670  TAACCCTGTGCTCAGGCACCTTCTTCCCCAGGAAGCCTTCCTGCCCAGCCATCATATGA     729

Qy    721  CTTGAGCCAGTTCTGTCCGTGGTCCCCGCACCAGGGGACCAGGCACTCAGGAG          780
           |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    730  CTTGAGCCAGTTCTGTCCGTGGTCCCCGCACCCAGCAGGGGACCAGGCACTCAGGAG        789

Qy    781  GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAAACTGGAGGACAAGAGTGCACGTG    840
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    790  GGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAAACTGGAGGACAAGAGTGCACGTG    849

Qy    841  AGTTCCTGGGAGTCTCCAGAGATGGGCTTGGAGGCCTGGAGGGGCCAGGGCTCAC          900
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    850  AGTTCCTGGGAGTCTCCAGAGATGGGCTTGGAGGCCTGGAGGGGCCAGGGCTCAC          909

Qy    901  ATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCCACAGCGTAGGCCCTTAATAAACACCTGT    960
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    910  ATTCGTGGGGGCTCCCTGAATGGCAGCCTGAGCCACAGCGTAGGCCCTTAATAAACACCTGT   969

Qy    961  TGGATAAGCCCA  972
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Db    970  TGGATAAGCCAA  981
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RESULT 2
BC048808

LOCUS   BC048808   Homo sapiens, prostate stem cell antigen,   990 bp   mRNA   linear   HTC   25-MAR-2003
DEFINITION Homo sapiens, prostate stem cell antigen, clone IMAGE:5187662,
            mRNA.
ACCESSION   BC048808
VERSION   BC048808.1   GI:29179405
KEYWORDS   HTC.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 990)
  AUTHORS   Strausberg,R.
  TITLE   Direct Submission
  JOURNAL   Submitted (14-MAR-2003) National Institutes of Health, Mammalian
            Gene Collection (MGC), Cancer Genomics Office, National Cancer
            Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
            USA
REMARK   NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT   Contact: MGC help desk
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Life Technologies, Inc.
            cDNA Library Preparation: Life Technologies, Inc.
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC),
            Gaithersburg, Maryland;

RL   Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03,
RL   Bethesda, MD 20892-2590, USA
XX
DR   RZPD; IRALp962M1933.
XX
CC   Contact: MGC help desk
CC   Email: cgapbs-r@mail.nih.gov
CC   Tissue Procurement: ATCC/DCTD/DTP
CC   cDNA Library Preparation: Rubin Laboratory
CC   cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
CC   DNA Sequencing by: National Institutes of Health Intramural
CC   Sequencing Center (NISC),
CC   Gaithersburg, Maryland;
CC   Web site: http://www.nisc.nih.gov/
CC   Contact: nisc_mgc@nhgri.nih.gov
CC   Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
CC   Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
CC   Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
CC   Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
CC   Madiro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
CC   McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
CC   Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
CC   Young,A., Zhang,L.-H. and Green,E.D.
CC   Clone distribution: MGC clone distribution information can be found
CC   through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
CC   Series: IRAL Plate: 33 Row: m Column: 19
CC   This clone was selected for full length sequencing because it
CC   passed the following selection criteria: matched mRNA gi: 5031994
CC   This clone has the following problem: retained intron.
XX
FH   Key   Location/Qualifiers
FH
FT   source   1..1024
FT   /db_xref="taxon:9606"
FT   /db_xref="RZPD:IRALp962M1933"
FT   /mol_type="mRNA"
FT   /note="vector: pOTB7"
FT   /organism="Homo sapiens"
FT   /clone="IMAGE:4840974"
FT   /tissue_type="Skin, melanotic melanoma, high MDR."
FT   /clone_lib="NIH_MGC_49"
FT   /lab_host="DH10B-R"
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SQ   Sequence 1024 BP; 226 A; 331 C; 285 G; 182 T; 0 other;

Query Match   99.8%; Score 970.4; DB 8; Length 1024;
Best Local Similarity   99.9%; Pred. No. 1.9e-188;
Matches 971; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy      1  GTGACCATGAAGGCGTGTGCTTGCCCCTGTTGATGGCAGGCTTGGCCCTGCCCAGCCAGGC    60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     10  GTGACCATGAAGGCGTGTGCTTGCCCCTGTTGATGGCAGGCTTGGCCCTGCCCAGCCAGGC    69

Qy     61  ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGGTG   120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     70  ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGGTG   129

Qy    121  GAGAACTGCACCCAGCTGGGGGAGCCAGTGCTGACCGCCGCCGCATCCCGGCCAGTTGGCCTC  180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    130  GAGAACTGCACCCAGCTGGGGGAGCCAGTGCTGACCGCCGCCGCATCCCGGCCAGTTGGCCTC  189

Qy    181  CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC  240
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Db    190  CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC  249

Qy    241  GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGGCCAGCGGGGCCCAT  300
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Db    250  GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGGCCAGCGGGGCCCAT  309

Qy    301  GCCCTGCAGCCGGCGCGTGCCGCCATCCTTGGCTGTCCCTGCCACTCGGCCTGCTCTGG  360
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    310  GCCCTGCAGCCGGCGCGTGCCGCCATCCTTGGCTGTCCCTGCCACTCGGCCTGCTCTGG  369
```

Web site: http://www.nisc.nih.gov/
Contact: nisc_mgc@nhgri.nih.gov
Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
McDowell,J., Pearson,R., Stantripop.S., Thomas,P.J., Touchman,J.W.,
Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
Young,A., Zhang,L.-H. and Green,E.D.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Series: IRAK Plate: 93 Row: h Column: 18
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 5031994
This clone has the following problem: retained intron.

FEATURES   Location/Qualifiers
     source   1..990
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5187662"
                     /tissue_type="Colon, Kidney, Stomach, adult, whole pooled"
                     /clone_lib="NIH_MGC_116"
                     /lab_host="DH10B"
                     /note="Vector: pCMV-SPORT6"

ORIGIN

Query Match   97.7%;   Score 949.4; DB 11; Length 990;
Best Local Similarity 98.9%; Pred. No. 3.7e-184;
Matches   956; Conservative   0; Mismatches 11; Indels   0; Gaps   0;

Qy   1 GTGACCATGAAGGCTGTGCTGTGCTTCCTGCTTGTCCCTGTTGATGGCAGGCTGGCCCTGCCCTGCAGCCAGGC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GTGACCACGAAGGCTGTGCTGTGCTTCCTGCTTGTCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGCC 60

Qy   61 ACTGCCCTGTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGAGACTGCCTCGCAGGTG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGAGACTGCCTGCAGGTG 120

Qy   121 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGGACCGCGCATCCGCGGCCAGTTGGCCTC 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGGACCGCGCATCCGCGGCCAGTTGGCCTC 180

Qy   181 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 CTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC 240

Qy   241 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGCAACGCAGCGGGGCGGCCCAT 300
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGCAACGCAGCGGGGCGGCCCAT 300

Qy   301 GCCCTGCAGCCGGCTGGCCGCATCCTGCCGTGCTCCCTGCCACTCGGCCTCGTCGCTCTG 360
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 GCCCTGCAGCCGGCTGGCCGCATCCTGCCGTGCTCCCTGCCACTCGGCCTCGTCGCTCTG 360

Qy   361 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTTGCAGCCCACAGTTGGGTTGTGCC 420
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGACCCGGCCAGCTCTAGGCTCTGGGGGGCCCCGCTTGCAGCCCACAGTTGGGTTGTGCC 420

Qy   421 CCAGGCCTCTGTGCCACTCCTCACAGACCTGGCCAGTGGGAGCCTGTCCTGGTTCCTGA 480
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 CCAGGCCTCTGTGCCACTCCTCACACACCCCGTGTCCCAGTGGGAGCCTGTCCTGGTTCCTGA 480

Qy   481 GGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTGCCCCACCCTGACCC 540
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 GGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCGCCCGCAGATCAGCTCAGTGACACAGATCCGCC 540

Qy   541 TCCCATGGCCCCTCCAGGACTCCCACCCCACCCCGGAGATCCGGGAGATCGGCTCTATTGACACAGATCCGCC 600
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 TCCCATGGCCCCTCCAGGACTCCCACCCCACCCCGGAGATCCGGGAGATCGGCTCTATTGACACAGATCCGCC 600

Qy   601 TGCGAGATGGCCCTTCCAACCCTTCTCTGCTGTCGTTGTTCCATGGCCCAGCATTCTCCACCCCT 660
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 TGCGAGATGGCCCCTTCCAACCCTTCTCTGCTGTCGTTGTTCCATGGCCCAGCATTCTCCACCCCT 660

Qy   661 TAACCCTGTGCTCAGGCACCTCCTTCCCTGCCCCAGAGAAGCCTTCCTGCCCACCCCATCTATGA 720
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 TAACCCTGTGCTCAGGCACCTCCTTCCCTGCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGA 720

Qy   721 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCCACCCAGCAGGGGACAGGCGACTCAGGAG 780
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGCCACCCAGCAGGGGACAGGGCACTCAGGAG 780

Qy   781 GGCCCAGTAAAGGCTGAGATGAATGGACTAGTAGTAGAACTGGAGGAACAAGAGTCGACGTG 840
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GGCCCGGTAAAGGCTGAGATGAATGGACTAGTAGTAGAACTGGAGGAACAAGAGTCGACGTG 840

Qy   841 AGTTCCTGGAGTCTCCAGAGATGGGGGCCTGGAGGGGCCTGGAGGAAGGGGCCAGGCCTCAC 900
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AGTTCCTGGAGTCTCCAGAGATGGGGGCCTGGAGGGGCCTGGAGGAAGGGGCCAGGCCTCAC 900

Qy   901 ATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCCAGCGTAGGCCCTTAATAAACACCTGT 960
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901 ATTCGTGGGGCTCCCTGAATGGCAGCCTGAATGGCAGCCTCAGCAGCGTAGGCCCTTAATAAACACCTGT 960

Qy   961 TGGATAA 967
           |||||||
Db   961 TGGATAA 967

RESULT 3
BU168445
LOCUS   BU168445   AGENCOURT_6937254 NIH_MGC_110 Homo sapiens   1009 bp   mRNA   linear   EST 04-SEP-2002
DEFINITION AGENCOURT_6937254 NIH_MGC_110 Homo sapiens cDNA clone IMAGE:5952095
            5', mRNA sequence.
ACCESSION   BU168445
VERSION   BU168445.1 GI:22682429
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 1009)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
  COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL).
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2139 row: i column: 24
            High quality sequence stop: 731.
FEATURES   Location/Qualifiers
     source   1..1009
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5952095"
                     /tissue_type="ductal carcinoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_110"
                     /note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
                     Site_2: EcoRI; cDNA made by oligo-dT priming.
                     Directionally cloned into EcoRI/XhoI sites using the
                     following 5' adaptor: GGCACGAG(G). Library constructed by
                     Ling Hong in the laboratory of Gerald M. Rubin (University
                     of California, Berkeley) using ZAP-cDNA synthesis kit
                     (Stratagene) and Superscript II RT (Life Technologies).
                     Note: this is a NIH_MGC Library."

ORIGIN

Query Match   92.8%;   Score 902.2;   DB 13;   Length 1009;
Best Local Similarity 97.9%;   Pred. No. 1.8e-174;
Matches 935;   Conservative 0;   Mismatches 18;   Indels 2;   Gaps 2;

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Qy       10 AAGGCTGTGTGCTGCTTGCCCGTGTTGATGGCAGCGGTCCCTGCAGCCAGGCACTGCCCTG 69
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1 AAGGCTGTGTGCTGCTTGCCCGTGTTGATGGCAGCGGTCCCTGCAGCCAGGCACTGCCCTG 60

Qy       70 CTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGC 129
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       61 CTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGC 120

Qy      130 ACCCAGCTGGGGGAGCAGTGCTGACACCGCGGCGATCCGCGCAGTTGGCCTCCTGACCGTC 189
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      121 ACCCAGCTGGGGGAGCAGTGCTGACACCGCGGCGATCCGCGCAGTTGGCCTCCTGACCGTC 180

Qy      190 ATCACAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAG 249
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      181 ATCACAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAG 240

Qy      250 AAGAACATCACGTGCGTGTGCAACGGCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAG 309
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      241 AAGAACATCACGTGCGTGTGCAACGGCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAG 300

Qy      310 CCGGCTGCCGCCATCCTTGCGCTGGCTCCTCCGGCCTCGGCCACTCGGCCTGCTCTGGGGACCCGGC 369
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      301 CCGGCTGCCGCCATCCTTGCGCTGGCTCCTCCGGCCTCGGCCACTCGGCCTGCTCTGGGGACCCGGC 360

Qy      370 CAGCTATAGGCTCTGGGGGGCCCCGTCGCAGCCCACACTGGGTGTGGTCGCCCAGGGCCTC 429
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      361 CAGCTCTAGGCTCTGGGGGGCCCCGTCGCAGCCCACACTGGGTGTGGTCGCCCAGGGCCTC 420

Qy      430 TGTGCCACTCCTCACAGACCTGGCCAGTGGGGAGGCCTGTGTCCTTGGTTCCTGAGGCACATCC 489
            ||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||||
Db      421 TGTGCCACTCCTCACACTCGGGGAGGCCTGTGTCCTGGTTCCTGAGGCACATCC 480

Qy      490 TAACGCAAGTCGACCATGTCTGCAGCCCCGTCTCCCACCCCTGACCCCTCCCATGGC 549
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      481 TAACGCAAGTCGACCATGTATGTCTGCGCCGCCCCGTCTCCCACCCCTGACCCCTCCCATGGC 540

Qy      550 CCTCTCCAGGACTCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGG 609
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      541 CCTCTCCAGGACTCCACCCGGCAGATCAGCTCTATTGACACAGATCCGCCTGCAGATGG 600

Qy      610 CCCCTCCAACCCTCTCTGCTGTTTCCATGGCCCAGCATTCCCACCCTTAACCCTGT 669
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      601 CCCCTCCAACCCTCTCTGCTGTCTGTTTCCATGGCCCAGCATTCCCACCCTTAACCCTGT 660

Qy      670 GCTCAGGCACCCGTCTCCTTCCCCAGGAAGCCTTCCCGCCCACCCCAGCTCTATGAACTTGAGCCA 729
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      661 GCTCAGGCACCCGTCTCCTTCCCCAGGAAGCCTTCCCGCCCACCCCAGCTCTATGAACTTGAGCCA 720

Qy      730 GGTCTGGTCCGTGTCCCCGTGGCAGGACTCAGGAGGGCCCAGTA 789
            ||||||||||||||||||||||||||||||||||||||||||||
Db      721 GGTCTGGTCCGTGGTCCCCGTGGCAGGACACAGGAGGGCCCGTA 780

Qy      790 AAGGCTGAGATGAAGTGGACTGAGTAGAACTGAGGAGGAAGGGGCCAGGGGCCAGCTCTTCCTGG 849
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      781 AAGGCTGAGATGAAGTGGACTGAGTAGAACTGAGGAGGAAGGGGCCAGGGGCCAGCTCTTCCTGG 840

Qy      850 GAGTCTCCAGAGATGGGGGCTGGAGGGCCTGGAGGAAGGGGCCAGGGCCTCACATTCGTGGG 909
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      841 GGATCT-CAGAGATGGGGGCTGGAGGGCCTGGAGGAAAGGGGCCAGGGCCTCACATTCGTGGG 899

Qy      910 GCTCCCTGAATGCAGCCTGAGCACAGCGTA-GGCCCTTAATAAACACCTGTTGG 963
            |||||||||||||||||||||||||||| ||||||||||||||||||||||||
Db      900 GCTCCCTGAATGGCAGCCTCAGCACAGCGTAGGGCCCTTAATAAACACCTGTTGG 954
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RESULT 4
BU194301

LOCUS   BU194301   911 bp   mRNA   linear   EST 04-SEP-2002
DEFINITION   AGENCOURT_7962297 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6106261
             5', mRNA sequence.
ACCESSION   BU194301
VERSION   BU194301.1   GI:22708285
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 911)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
             Email: cgapbs-r@mail.nih.gov
             Tissue Procurement: DCTD/DTP
             cDNA Library Preparation: Rubin Laboratory
             cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
             DNA Sequencing by: Agencourt Bioscience Corporation
             Clone distribution: MGC clone distribution information can be
             found through the I.M.A.G.E. Consortium/LLNL at:
             http://image.llnl.gov
             Plate: LLCM2347 row: a column: 14
             High quality sequence stop: 649.
FEATURES   Location/Qualifiers
     source   1..911
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6106261"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."

ORIGIN

Query Match   85.1%;   Score 827.6;   DB 13;   Length 911;
Best Local Similarity 97.5%;   Pred. No. 3.3e-159;
Matches 850;   Conservative 0;   Mismatches 21;   Indels 1;   Gaps 1;

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Qy       93 GGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCTGGGGGAGCAGTGCTG 152
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1 GGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCTGGGGGAGCAGTGCTG 60

Qy      153 GACCCGGCGGGGGCCATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAAGAAGGCTGAA 212
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||
Db       61 GACCCGGCGGGGGCCATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAAGAAGGCTGAA 120

Qy      213 CTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACATCACGTGCGTGTGACAC 272
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      121 CTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACATCACGTGCGTGTGACAC 180

Qy      273 CGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGCTGCCGCCATCCTTGCGCT 332
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      181 CGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGCTGCCGCCATCCTTGCGCT 240

Qy      333 GCTCCCTGCACTCGGCCTGCTCTGGGGGAGCTCCTCCTTGTTGCCACTCTATAGGCTCTG 392
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      241 GCTCCCTGCACTCGGCCTGCTCTGGGGGAGCTCCTCCTGTTGCCACTCTATAGGCTCTG 300

Qy      393 CGCTGCAGCCCACACTGGGTGTGGTGCCCAGGCCTTCGTGTGCCACTCCTCCACTCCTCACAGACCTGG 452
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      301 CGCTGCAGCCCACACTGGGTGTGGTGCCCAGGCCTTCGTGTGCCACTCCTCCACTCCTCACAGACCTGG 360

Qy      453 CCCAGTGGGGAGCCTGTGTCCTTCGAGGCACATCCTAACGCAAGTCGACCATGTATG 512
            ...
```

EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCACGAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

ORIGIN

```
Query Match       79.2%;  Score 769.6;  DB 13;  Length 922;
Best Local Similarity   98.4%;  Pred. No. 2.6e-147;
Matches 787;  Conservative  0;  Mismatches  11;  Indels  2;  Gaps  1;

Qy    92  AGGTGAGCAACGAGGAGACTGCCTGCAGGTGGGAGAACTGCACCCAGCTGGGGGAGCAGTGCT   151
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1  AGGTGAGCAACGAGGAGACTGCCTGCAGGTGGGAGAACTGCACCCAGCTGGGGGAGCAGTGCT    60

Qy   152  GGACCGGCGGCATCCGGGCAGTTGCCTCCTGACCGTCATCAGCAAAGGTCAGCTGA   211
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61  GGACCGGCGGCATCCGGGCAGTTGCCTCCTGACCGTCATCAGCAAAGGTCAGCTGA   120

Qy   212  ACTGCGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACATCACGTGCGTGTGACA   271
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121  ACTGCGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACATCACGTGCGTGTGACA   180

Qy   272  CCGACTTGTGCAACGCCAGCGGGGCCCATGCCCGGCGGCTGCGCGCCATCCTTGCGC   331
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181  CCGACTTGTGCAACGCCAGCGGGGCCCATGCCCGGCGGCTGCGCGCCATCCTTGCGC   240

Qy   332  TGCTCCCTGCACTCGGCCTGCTCGTCTGTGTGCCCAGGCCCGGCCAGTATAGGCTCTGGGGGGCC   391
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241  TGCTCCCTGCACTCGGCCTGCTCGTCTGTGTGCCCAGGCCCGGCCAGTATAGGCTCTGGGGGGCC   300

Qy   392  CCGCTGCAGCCCACCACTGGGTGTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCCATGTAT   451
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301  CCGCTGCAGCCCACCACTGGGTGTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCCATGTAT   360

Qy   452  GCCCAGTGGGAGCCCTGTCCCCACCCTGACCCTCCCATGGCCCTCTCCAGACTCCCACCCGG   511
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361  GCCCAGTGGGAGCCCTGTCCCCACCCTGACCCTCCCATGGCCCTCTCCAGACTCCCACCCGG   420

Qy   512  GTCTGCACCCCTGTCCCCCACCCTGACCCTCCCATGGCCCTCTCCAGACTCCCACCCGG   571
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421  GTCTGCACCCCTGTCCCCCACCCTGACCCTCCCATGGCCCTCTCCAGACTCCCACCCGG   480

Qy   572  CAGATCAGCTCTAGTGACACAGATCCGCCTGCAGACGATCCGCCCTCCAACCCTCTCTGCTGC   631
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481  CAGATCAGCTCTAGTGACACAGATCCGCCTGCAGACGATCCGCCCTCCAACCCTCTCTGCTGC   540

Qy   632  TGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGTGCTCAGGCACCTCTTCCCCCAG   691
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541  TGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGTGCTCAGGCACCTCTTCCCCCAG   600

Qy   692  GAAGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGTCTGGTCCGTGGTGTCCCCC   751
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601  GAAGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGTCTGGTCCGTGGTGTCCCCC   660

Qy   752  GCACCCAGCAGGGGACTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTG   811
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661  GCACCCAGCAGGGGACTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTG   720

Qy   812  AGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTTCCAGAGATGGGG--CC   869
          |||||||||||||||||| ||||| |||||||||||||||||||||||||||||  ||
Db   721  AGTANAACTGGAGGANCAGAGTCGACGTGAGTTCCTGGGAGTTCCAAAGATGGGGGCCT   780

Qy   870  TGGAGGCCTGGAAGAGGGG   889
          ||||||| ||||||| |||
Db   781  GGAAGCCCTGGAAGAAAGGG   800
```

RESULT 6
BQ678675
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LOCUS       BQ678675                924 bp    mRNA            linear    EST 15-JUL-2002
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Db   361  CCCAGTGGGAGCCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATG   420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   513  TCTGCACCCCTGTCCCCCACCCTGACCCTCCCATGGCCCTCTCCAGACTCCCACCCGGC   572
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421  TCTGCACCCCTGTCCCCCACCCTGACCCTCCCATGGCCCTCTCCAGACTCCCACCCGGC   480

Qy   573  AGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCTCCAACCCTCTCTGCTGCT   632
          ||||||||||||||||||||||||||||||||| ||||||||||||||||||||||||
Db   481  AGATCAGCTCTAGTGACACAGATCCGCCTGCGATGGCCCTCCAACCCTCTCTGCTGCT   540

Qy   633  GTTTCCATGGCCCAGCATTCTCCACCCTTAACCCGTGCTCAGGCACCTCTTCCCCCAGG   692
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541  GTTTCCATGGCCCAGCATTCTCCACCCCTTAACCCGTGCTCAGGCACCTCTTCCCCCAGG   600

Qy   693  AAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGTCTGTCCGTGGTGTCCCCG   752
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541  AAGCCTTCCCTGCCCACCCCATCCTATGACTTGAGCCAGTCTGTCCGTGGTGTCCCCG   660

Qy   753  CACCCAGCAGGGGACACGGGCACTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGA   812
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661  CACCCAGCAGGGGACACGGGCACTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGA   720

Qy   813  GTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCCTCCAGAGGATGGGGGCCTTGG   872
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721  GTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCCAGAGGATGGGGGCCTTGG   780

Qy   873  AGGCCTGGAAGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGC   932
          ||||||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db   781  AGGCCTGGAAGAAAGGGGCCCAGGCCTTCACATTCTGGGGGCTCCCCCGGAATGGCAGCCTGAGC   840

Qy   933  A-CAGGCGTAGGCCCTTAATAAACACCTGTTGG   963
          | |||||||||||||||| ||||||||||||
Db   841  ACCGGCGTAGGCCCTTAATTAAAACACCCTGGG   872
```

RESULT 5
BU168360
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LOCUS       BU168360                922 bp    mRNA            linear    EST 04-SEP-2002
DEFINITION  AGENCOURT_7983951 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6110984
            5', mRNA sequence.
ACCESSION   BU168360
VERSION     BU168360.1  GI:22682344
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 922)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2359 row: f  column: 09
            High quality sequence stop: 597.
FEATURES             Location/Qualifiers
     source          1..922
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6110984"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site_1: XhoI; Site_2:
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DEFINITION    AGENCOURT_8183287 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6262397
              5', mRNA sequence.
ACCESSION     BQ678675
VERSION       BQ678675.1  GI:21791354
KEYWORDS      EST.
SOURCE        Homo sapiens (human)
  ORGANISM    Homo sapiens
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE     1  (bases 1 to 924)
  AUTHORS     NIH-MGC http://mgc.nci.nih.gov/.
  TITLE       National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL     Unpublished (1999)
COMMENT       Contact: Robert Strausberg, Ph.D.
              Email: cgapbs-r@mail.nih.gov
              Tissue Procurement: DCTD/DTP
              cDNA Library Preparation: Rubin Laboratory
              cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
              DNA Sequencing by: Agencourt Bioscience Corporation
              Clone distribution: MGC clone distribution information can be
              found through the I.M.A.G.E. Consortium/LLNL at:
              http://image.llnl.gov
              Plate: LLCM2424  row: k  column: 06
              High quality sequence stop: 673.
FEATURES             Location/Qualifiers
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                     /db_xref="taxon:9606"
                     /clone="IMAGE:6262397"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC 112"
                     /note="Organ: skin; Vector: pOTB7; Site_1: XhoI; Site_2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN

Query Match       78.0%;  Score 758;  DB 13;  Length 924;
Best Local Similarity   97.8%;  Pred. No. 6.3e-145;
Matches  790;  Conservative   0;  Mismatches  15;  Indels   3;  Gaps   2;

Qy      5 CCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGAGGCTTGGCCCTGCAGCCAGGCACTG  64
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Db      1 CCACGAAGGCTGTGCTGCTTGCCCTGTTGATGGAGGCTTGGCCCTGCAGCCAGGCACTG  60

Qy     65 CCCTGCTGTCTACTCCTCCAAAGCCCAGTGAGCAACGAGGACTGCCTGCCAGGTGGAGA  124
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 CCCTGCTGTCTACTCCTCCAAAGCCCAGTGAGCAACGAGGACTGCCTGCCAGGTGGAGA  120

Qy    125 ACTGCACCCAGCTGGGGAGCAGTGCTGACCACGCGCGCATCCGCGCAGTTGGCCTCCTGA  184
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 ACTGCACCCAGCTGGGGAGCAGTGCTGACCACGCGCGCATCCGCGCAGTTGGCCTCCTGA  180

Qy    185 CCGTCATCAGCAAAGGCTGCAGCTTGAACTGCTGGATGACTGCCTGCACAGGACTACTGG  244
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 CCGTCATCAGCAAAGGCTGCAGCTTGAACTGCTGGATGACTGCCTGCACAGGACTACTGG  240

Qy    245 GCAAGAAGAACATCACGTGCTGTGTGACACCGACTTGTCAACGCCCATGCCC  304
            ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 GCAAGAAGAACATCACGTGCTGTGTGACACCGACTTGTCAACGCCCATGCCC  300

Qy    305 TGCAGCCGGCTGCCCATCCTTGGCTGCTCCCTGCGCTCCGGCTGCTCTGGGGAC  364
            |||||||||||||||||||||| ||||| |||||||||||||||| ||||| |||
Db    301 TGCAGCCGGCTGCCATCCTTGGCTGCTCCCTGCGCTCCGGCTGCTCTGGGGAC  360

Qy    365 CCGGCCAGTATAGGCTCTGGGGGGCCCCGCTGCAGCCCCACACTGGGTGTGGTGCCCCAG  424
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361 CCGGCCAGTCTCAGGCTCTGGGGGGCCCGTGCAGCCCACACTGGGTGTGGTGCCCCAG  420
Qy  425 GCCTCTGTGCCACTCCTCACAGACTGGGAGCTGTCTCTGGTTCCTGGTTCCTGGTTCCTGAGGCA  484
          ||||||||||||||||||||| |||||||||||||||||||||||||||||||||||
Db  421 GCCTCTGTGCCACTCCTCACACACCCGGCCAGTGGGGAGCTGTCTCTGGTTCCTGAGGCA  480

Qy  485 CATCCTAACGCAAGTCGACCATGTATGTCTGCACCCTGTGCCCCTGACCCTCCC  544
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  481 CATCCTAACGCAAGTCGACCATGTATGTCTGCGCCCCTGTGCCCCTGACCCTCCC  540

Qy  545 ATGGCCCCTCCAGGACTCCCACCCGGCAGATCAGTCTAGTGACACAGATCCGGCCTGCA  604
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  541 ATGGCCCCTCCAGGACTCCCACCCCGGCAGATCGGTCTATTGACACAGATCCGGCCTGCA  600

Qy  605 GATGGCCCTCCAACCCTCGTCGTGTTCCATGGCCCAGCATTCTCCACCCTTAAC  664
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Db  601 GATGGCCCTCCAACCCTCTCGTCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAAC  660

Qy  665 CCTGTGCTCAGGCACCTTCCCCAGGAGAGCCTTCCGTGCCACCCATCTATGACTTG  724
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Db  661 CCTGTGCTCAGGCACCTTCCCCAGGAGAGCCTTCCGTGCCACCCATCTATGACTTG  720

Qy  725 AGCCAGTCTG--TCCGTGGTGTCCCCCCAGCAGGGGACAGGCACT-CAGGAGG  781
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Db  721 AGCCAGTCTGGTCCGTGGTGTCCCCCCAGCAGGGGACAGGGACTCCCAGGAGG  780

Qy  782 GCCCAGTAAAGGCTGAGATGAAGTGGAC  809
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Db  781 GCCCGGAAAAGGCTTGAGATGAAATGGAC  808
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RESULT 7
BM018834
LOCUS       BM018834               972 bp    mRNA     linear   EST 30-OCT-2001
DEFINITION  6036467522F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:5428285 5',
            mRNA sequence.
ACCESSION   BM018834
VERSION     BM018834.1  GI:16533188
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 972)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM1895  row: h  column: 14
            High quality sequence stop: 831.
FEATURES             Location/Qualifiers
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                     /db_xref="taxon:9606"
                     /clone="IMAGE:5428285"
                     /tissue_type="astrocytoma grade IV, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC 98"
                     /note="Organ: brain; Vector: pOTB7; Site_1: XhoI; Site_2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally
                     cloned into EcoRI/XhoI sites using the following 5'
                     adaptor: GGCACGAG(G). Library constructed by Ling Hong
                     in the laboratory of Gerald M. Rubin (University of
                     California, Berkeley) using ZAP-cDNA synthesis kit
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ORIGIN

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                         (Stratagene) and Superscript II RT (Life Technologies).
                         Note: this is a NIH_MGC Library."

Query Match        76.3%;      Score 741.8;   DB 12;    Length 972;
Best Local Similarity  93.7%;  Pred. No. 1.4e-141;
Matches  837;     Conservative  0;   Mismatches  49;   Indels  7;   Gaps  6;

Qy     1 GTGACCATGAAGGCTGTGCTGCTTCGCCTGTTGACTGGCAGGCTTGGCCCTGCAGCCAGGC 60
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Db    10 GTGACCATGAAGGCTGTGCTGCTTCGCCTGTTGACTGGCAGGCTTGGCCCTGCAGCCAGGC 69

Qy    61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACCAGGAGGACTGCCTGCAGGTG 120
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Db    70 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACCAGGAGGACTGCCTGCAGGTG 129

Qy   121 GAGAACTGCACCCAGCTGGGGAGCAGTGCTGCTGACCGCCGCATCCGGCCAGTTGGCCTC 180
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Qy   181 CTGACCGTCATCAGCAAAGGCTCTGTGACACGCCGACTGTGTCAACGCCAGCGGGGCCAT 240
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Qy   241 GTGGGCAAGAAGAACATCACGTGCTGCGCCATCCTTGGCGTGCCACTCGGCCTGCTGTGGTGGTGCC 300
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Db   250 GTGGGCAAGAAGAACATCACGTGCTGCGCCATCCTTGGCGTGCCACTCGGCCTGCTGTGGTGGTGCC 309

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Db   310 GCCCTGCAGCGCGGCTGCGGCCGCCATCCTTGCGCGGGGCCCCGCTGCAGCCCCACTGGTGTGGTGCC 369

Qy   361 GGACCCCGGCCGCCGTATAGGCTGGGGGCCTGGGGGCCGAGCCCACTGGTGTCCTGA 420
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Qy   421 CCAGGCCTCTGTGCCACTCCTCACAGACCTGGGAGCCTGTCCTGTCCTGGTTCCTGA 480
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Db   430 CCAGGCCTCTGTGCCACTCCTCACAGACCTGGGAGCCTGTCCTGTCCTGGTTCCTGA 489

Qy   481 GGCACATCCTAACGACGAAGTCTGACCATGTATGTCTGACACCCGTCCCCCA-CCCTGACC 539
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Db   490 GGCACATCCTAACGCAGAGTCTGACCATGTATGTCTGACACCCGTCCCCCGTCCCCCAGACCTGAAC 549

Qy   540 CTCCCATGGCCCCTCTCCAGGACTCCCACCCGCCAGATCAGCTCTAGTGACAC-AGATCCG 598
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Db   550 CTCCCATGGCCCCTCTCCAGGACTCCCACCCGCCAGATCAGCTCTAGTGACACAAGATCCN 609

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Db   610 GCTGCAGAATGGCCCCTCCCAGACCCTCTGCTGTTTCCATGCCCAGCATTCTTCCAG 669

Qy   658 CCTTAACCCTGTGCCACCTCCGCGGACCTCTTCCTCTTCCCCAGGAGCCTTCCTGCCCACCCCATCTA 717
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Db   670 CCTTAAACCTGTGCCACCTCCGCGGACCTCTTCCTCTTCCCCAGGAAGACTTCCCTTGCCACCCCATCTA 729

Qy   718 TGACTTGAGCCAGGTCTGGTCGTGGTGTCCGTGGTGTCCCCGCAGGGAGCAGGCACTC-A 776
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RESULT 8
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LOCUS   BQ876328   957 bp   mRNA   linear   EST 16-AUG-2002
DEFINITION AGENCOURT_8203515 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6267374

ACCESSION   BQ876328
VERSION   BQ876328.1 GI:22268334
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
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            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 957)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2437 row: j column: 15
            High quality sequence stop: 697.
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                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN

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Query Match       75.5%;     Score 734;     DB 13;    Length 957;
Best Local Similarity  97.7%;  Pred. No. 5.3e-140;
Matches  766;     Conservative  0;   Mismatches  15;   Indels  3;   Gaps  2;

Qy     5 CCATGAAGGCTGTGCTGCTTCGCCTGTTGATGGCAGGCTTGGCCCTGCAGCGTTGGCCCTGCAGCCAGGCACTG 64
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Db     1 CCACGAAGGCTGTGCTGCTTCGCCTGTTGATGGCAGGCTTGGCCCTGCAGCGTTGGCCCTGCAGCCAGGCACTG 60

Qy    65 CCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACCAGGAGGACTGCCTGCAGGTGAGA 124
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Db    61 CCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACCAGGAGGACTGCCTGCAGGTGAGA 120

Qy   125 ACTGCACCCAGCTGGGGAGCAGTGCTGCTGACCGCCGCATCCGGCCAGTTGGCCTCCTGA 184
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Db   121 ACTGCACCCAGCTGGGGAGCAGTGCTGCTGACCGCCGCATCCGGCCAGTTGGCCTCCTGA 180

Qy   185 CCGTCATCAGCAAAGGCTCTGTGACACGCCGCTGGTGATGACTCACAGGACTACTACGTGG 244
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 CCGTCATCAGCAAAGGCTCTGTGACACGCCGCTGGTGATGACTCACAGGACTACTACGTGG 240

Qy   245 GCAAGAAGAACATCACGTGCCCATCCTTGCGCTGTGACACCGACTTGTGACACCGACCCATGCC 304
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Db   241 GCAAGAAGAACATCACGTGCCCATCCTTGCGCTGTGACACCGACTTGTGACACCGACCCATGCC 300

Qy   305 TGCAGCCGGCTGCGCCATCCTTGCGGGGGCCCCGCTGCTCTGGGGACCCCATGCCC 364
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Db   301 TGCAGCCGGCTGCGCCATCCTTGCGGGGGCCCCGCTGCTCTGGGGACCCCATGCCC 360

Qy   365 CCGGCCAGTCTATAGGCTCTGGGGGACCCCCACACTGGGTGTGGTCCCCAG 424
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Db   361 CCGGCCAGTCTAGGCTCTGGGGGACCCCCACACTGGGTGTGGTCCCCAG 420
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Note: this is a NIH_MGC Library."

ORIGIN

Query Match　　　75.4%;　Score 732.6;　DB 12;　Length 827;
Best Local Similarity　98.1%;　Pred. No. 9.6e-140;
Matches　805;　Conservative　0;　Mismatches　9;　Indels　7;　Gaps　6;

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Db    10 GTGACCATGAGGCGTGCTGCTTGCCTGTGCCTGTTGCCTGTTGATGGCAGCAGGTCGCCTGCAGCCAGGC 69

Qy    61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCAGGTGAGCAGGAGGACTGCCTCCAGGTG 120
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Db    70 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCAGGTGAGCAGGAGGACTGCCTCCAGGTG 129

Qy   121 GAGAACTGCACCAGCTGGGGAGCAGTGTGCAGCTGGATGACTCAGGACTACTAC 180
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Db   130 GAGAACTGCACCAGCTGGGGAGCAGTGTGCAGCTGGATGACTCAGGACTACTAC 189

Qy   181 CTGACCCTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGCTGACACCGACTTGTGCAACGCCAGCGGGCCCAT 240
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Db   190 CTGACCCTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGCTGACACCGACTTGTGCAACGCCAGCGGGCCCAT 249

Qy   241 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCAT 300
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Qy   301 GCCCTGCAGCCGCCGGCTGCCGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCACACTGGGTGTGTGTGCC 360
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Db   310 GCCCTGCAGCCGCCGGCTGCCGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCACACTGGGTGTGTGTGCC 369

Qy   361 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTCCGGTTCCTGA 420
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Db   370 GGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTCCGGTTCCTGA 429

Qy   421 CCAGGCTCTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTTCCATGGCCCA-GCATTCTCCACCC 480
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Db   430 CCAGGCTCTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTTCCATGGCCCA-GCATTCTCCACCC 489

Qy   481 GGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCGTCTCGCACCCCGTGACCC 540
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Db   490 GGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCGTCTCGCACCCCGTGACCC 549

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Db   550 TCCCATGGCCCTCTCCAGGACTCCCACCCGCAGATCAGTCTCTAGTGACACAGATCCG-C 608

Qy   601 TGCAGATGGCCCCTCCAACCCTCTCTGTGTTCCCATGGCCCA-GCATTCTCCACCC 659
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Db   609 TGCAGATGG-CCCTCCAACCCTCTCTGTGTTCCCATGGCCCAGGCATTCTCCACCC 667

Qy   660 TTAACCCTGTGCTC-AGCCACCTTCTCCGCCAGCCTTCCCTG-CCAACCACCTCTAT 718
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Qy   719 GACTTGAGCCAGGTCTGGTCCGTGGT--GTCCCCGCACCCAGCAGGGGACAGGCACTCA 776
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Qy   777 GGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGA 817
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RESULT 10
BM042052
LOCUS　　　　BM042052　　　　749 bp　　mRNA　　　linear　EST 07-NOV-2001
DEFINITION　　60361605 4F1 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:5420700 5',
　　　　　　mRNA sequence.
ACCESSION　　BM042052
VERSION　　　BM042052.1　GI:16771319
KEYWORDS　　EST.
SOURCE　　　Homo sapiens (human)

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GCCCTCGTGCCACTCCTCACAGACCCGGCCCAGTGGGAGCCTGTTCCTGTGAGGCA 480

CATCCTAACGCAAGTCTGACCATGTATGTCTGCGGCCCGAGATCAGTCTGACACAGATCCGCCACCCTCCC 544
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CATCCTAACGCAAGTCTGACCATGTATGTCTGCGGCCCGAGATCAGTCTGACACAGATCCGCCACCCTCCC 540

ATGGCCCCTCCAGGACTCCCACCCTCTCTGTGTTCCATGGCCCA-GTCTAGTGACACAGATCCGCCTGCA 604
|||||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||||
ATGGCCCCTCCAGGACTCCCACCCTCTCTGTGTTCCATGGCCCA-TTCATTGACACAGATCCGCCCTCA 600

GATGGCCCCTCCAACCCTCCAACCCTCCTGTGCTGTTTCCATGGCCCAGCCAGCATTCTCCACCCTTAAC 664
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
GATGGCCCCTCCAACCCTCCAACCCTCCTGTGCTGTTTCCATGGCCCAGCCAGCATTCTCCACCCTTAAC 660

CCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGACTTG 724
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||
CCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGACTTG 720

AGCCAGGT-CTGGTCCGTCGTGTCCCCGCACCCAGCACCCAGGGG--ACAGGCACTCAGGAGG 781
|||||||| |||||||||||||||||||||||||||||||||||| |||||||||||||||
AGCCAGGTCCTGGTCCGTCGTGTCCCCGCACCCAGCACCCAGGGGAAACGGCACTCCGGAGG 780

GCCC 785
||||
GGCC 784

RESULT 9
BM018750
LOCUS　　　　BM018750　　　　827 bp　　mRNA　　　linear　EST 30-OCT-2001
DEFINITION　　60364652 4F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:5428261 5',
　　　　　　mRNA sequence.
ACCESSION　　BM018750
VERSION　　　BM018750.1　GI:16533104
KEYWORDS　　EST.
SOURCE　　　Homo sapiens (human)
ORGANISM　　Homo sapiens
　　　　　　Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
　　　　　　Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
REFERENCE　　1　(bases 1 to 827)
AUTHORS　　NIH-MGC http://mgc.nci.nih.gov/.
TITLE　　　National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL　　Unpublished (1999)
COMMENT　　Contact: Robert Strausberg, Ph.D.
　　　　　　Email: cgapbs-r@mail.nih.gov
　　　　　　Tissue Procurement: ATCC
　　　　　　cDNA Library Preparation: Ling Hong/Rubin Laboratory
　　　　　　cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
　　　　　　DNA Sequencing by: Incyte Genomics, Inc.
　　　　　　Clone distribution: MGC clone distribution information can be
　　　　　　found through the I.M.A.G.E. Consortium/LLNL at:
　　　　　　http://image.llnl.gov
　　　　　　Plate: LLCM1895 row: g　column: 14
　　　　　　High quality sequence stop: 810.
FEATURES　　　　Location/Qualifiers
source　　　1..827
　　　　　　/organism="Homo sapiens"
　　　　　　/mol_type="mRNA"
　　　　　　/db_xref="taxon:9606"
　　　　　　/clone="IMAGE:5428261"
　　　　　　/tissue_type="astrocytoma grade IV, cell line"
　　　　　　/clone_lib="NIH_MGC_98"
　　　　　　/lab_host="DH10B (phage-resistant)"
　　　　　　/note="Organ: brain; Vector: pOTB7; Site_1: XhoI; Site_2:
　　　　　　EcoRI; cDNA made by oligo-dT priming. Directionally
　　　　　　cloned into EcoRI/XhoI sites using the following 5'
　　　　　　adaptor: GGCACGAG/(G). Library constructed by Ling Hong
　　　　　　in the laboratory of Gerald M. Rubin (University of
　　　　　　California, Berkeley) using ZAP-cDNA synthesis kit
　　　　　　(Stratagene) and Superscript II RT (Life Technologies).

```
Qy   483  CACATCCTAAGCAAGTTGACCATGTATGTCTGACACCCTGTCCCCACCCTGACCCTC 542
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481  CACATCCTAACGCAAGTCGACCATGTATGTCTGCGCCCCTGTCCCCACCCTGACCCTC 540

Qy   543  CCATGGCCCTCCAGGACTCCCACCCGGCAGATCAGCTTCAGTGGCCCCTGACACAGATCCGCCTG 602
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541  CCATGGCCCTCTCCAGGACTCCCACCCCGGCAGATCGGCTCTCATTGACACAGATCCGCCTG 600

Qy   603  CAGATGGCCCCTCCAACCCTCTGTGTTCCATGGCCCAGCATTCTCCACCCTTA 662
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601  CAGATGG--CCTCCAACCCCTCTGTGTGTTTCCATGGCCCAGCATTCTCCACCCTTA 659

Qy   663  ACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACT 722
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   660  ACCCTGTGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACT 719

Qy   723  TGAGCCAGGTCTGGTCCGTGGTGTCCCC 750
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Db   720  TGAGCCAGGTCTGGTCCGTGGTGTCCCC 747
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RESULT 11

```
BU173702
LOCUS       BU173702                 901 bp    mRNA    linear   EST 04-SEP-2002
DEFINITION  AGENCOURT_7569845 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6074479
            5', mRNA sequence.
ACCESSION   BU173702
VERSION     BU173702.1  GI:22687686
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 901)
            NIH-MGC http://mgc.nci.nih.gov/.
            National Institutes of Health, Mammalian Gene Collection (MGC)
AUTHORS     Unpublished (1999).
TITLE
JOURNAL
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2290 row: e   column: 08
            High quality sequence stop: 667.
FEATURES             Location/Qualifiers
     source          1..901
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6074479"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: sKin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN
Query Match   73.6%;  Score 715;  DB 13;  Length 901;
Best Local Similarity   96.5%;  Pred. No. 4.1e-136;
Matches  763;  Conservative   0;  Mismatches  22;  Indels   6;  Gaps   3;
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Qy   9   GAAGGCTGTGCTGTTGCCCTGTTGATGGCAGCAGGTTGGCCCTCAGCCAGCACTGCCCCT 68
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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RESULT 10 (continued)

```
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 749)
            NIH-MGC http://mgc.nci.nih.gov/.
            National Institutes of Health, Mammalian Gene Collection (MGC)
AUTHORS     Unpublished (1999).
TITLE
JOURNAL
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM1875 row: 1   column: 13
            High quality sequence stop: 748.
FEATURES             Location/Qualifiers
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5420700"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: sKin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN
Query Match   74.4%;  Score 723.2;  DB 12;  Length 749;
Best Local Similarity   98.8%;  Pred. No. 7.7e-138;
Matches  739;  Conservative   0;  Mismatches   8;  Indels   1;  Gaps   1;
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Qy   3    GACCATGAAGGCTGTGCTGTTGCCCTGTTGATGGCAGCAGGTTGGCCCTCAGCCAGCAGCAC 62
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1    GACCACGAAGGCTGTGCTGTTGCCCTGTTGATGGCAGCAGGTTGGCCCTCAGCCAGCAGCAC 60

Qy   63   TGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGA 122
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61   TGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGA 120

Qy   123  GAACTGCACCCAGCTGGGGGAGCAGTGGGGACCGCGGCAGTTGGCCTCCT 182
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121  GAACTCACCCAGCTGGGGGAGCAGTGCTGCACCGGCGCATCCGCGCAGTTGGCCTCCT 180

Qy   183  GACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGT 242
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181  GACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGT 240

Qy   243  GGGCAAGAGAACATCACGTGTGTGACACCGACTTGTGCAACGGCAGCGGGGCCCATGC 302
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241  GGGCAAGAGAACATCACGTGCTGTGACACCGACTTGTGCAACGGCAGCGGGGCCCATGC 300

Qy   303  CCTGCAGCCGCTGCCGCCATCCTTGCGCTGTCTCCCTGCCACTCGGCTCCGCCTGTGTCTCGGGG 362
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301  CCTGCGCACCGCCTGCCGCCATCCTTGCGCTGTCTCCCTGCCACTCGGCTCCGCCTGTGTCTCGGGG 360

Qy   363  ACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGGGGGGTGTGGGTGCGCCCC 422
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361  ACCCGGCCAGCTCAGGCTCTGGGGGGCCCCGCTGCCCACTGGGGGTGTGGGTGCGCCCC 420

Qy   423  AGGCCTCTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTTGTCCTGGTTCCTGAGG 482
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421  AGGCCCTCTGTGCCACTCCTCACACACACCCGGCGCCCAGTGGGAGCCTTGTCCTGGTTCCTGAGG 480
```

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PUBMED      8889548
COMMENT     Contact: McCray, PB
            McCray Lab
            University of Iowa
            2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
            Tel: 319 356 4866
            Fax: 319 356 7171
            Email: paul-mccray@uiowa.edu
            Tissue Procurement: Dr. M. J. Welsh, University of Iowa
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Researchers may obtain clones from Research
            Genetics (www.resgen.com) or from Open Biosystems
            (www.openbiosystems.com).
            Seq primer: M13 FORWARD
            POLYA=Yes.

FEATURES             Location/Qualifiers
     source          1..743
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-CF-EN1-adf-h-09-0-UI"
                     /tissue_type="Primary Lung Cystic Fibrosis Epithelial
                     Cells"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
                     /clone_lib="UI-CF-EN1"
                     /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site 1: EcoR I; Site 2: Not I;
                     UI-CF-EN1 is a normalized cDNA library containing the
                     following tissue(s): Primary Lung Cystic Fibrosis
                     Epithelial Cells. The library was constructed according to
                     Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                     1996. First strand cDNA synthesis was primed with an
                     oligo-dT primer containing a Not I site. Double stranded
                     cDNA was ligated to an EcoR I adaptor, digested with Not
                     I, and cloned directionally into pT7T3-Pac vector. The
                     oligonucleotide used to prime the synthesis of
                     first-strand cDNA contains a library tag sequence that is
                     located between the Not I site and the (dT)18 tail. The
                     sequence tag for this library is CTGCTCAGGT.
                     TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
                     6hr to LPS 24h
                     TAG_LIB=UI-CF-EN1
                     TAG_SEQ=CTGCTCAGGT"

ORIGIN
      Query Match      72.7%;  Score 706.4;  DB 12;  Length 743;
      Best Local Similarity  98.2%;  Pred. No. 2.1e-134;
      Matches  713;  Conservative  0;  Mismatches  13;  Indels  0;  Gaps  0;
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```
Db       4 GAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGCCCTGCAGCCAGGCACTGCCCT 63

Qy      69 GCTGTGCTACTCCTGCCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTG 128
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      64 GCTGTGCTACTCCTGCCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTG 123

Qy     129 CACCCAGCTGGGGGAGCAGTGCTGGACCGGCGCCATCCGCGCAGTTGGCCTTCCTGACCGT 188
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     124 CACCCAGCTGGGGGAGCAGTGCTGGACCGGCGCCATCCGCGCAGTTGGCCTTCCTGACCGT 183

Qy     189 CATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAA 248
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     184 CATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAA 243

Qy     249 GAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCTGCA 308
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     244 GAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCTGCA 303

Qy     309 GCCGGCTGCGGCCATCCGCTCCTGCGCCTCCTGCACTCGGCCTGCTCCTGGGGACCCGG 368
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     304 GCCGGCTGCGGCCATCCGCTCCTGCGCCTCCTGCACTCGGCCTGCTCTGGGGACCCCGG 363

Qy     369 CCAGCTATAGGCTCTGGGGGGGCCCCGGTGTGGTGTGTGCCCCAGGCCT 428
            ||||||||||||||||||||||||||||||||||||||||||||||||
Db     364 CCAGCTCTAGGCTCTGGGGGGGCCCCGGTGTGGTGTGTGCCCCAGGCCT 423

Qy     429 CTGTGCCACTCCTCACAGACTGGCCCAGCGTGGGAGACCTGTCTCGGTTCCTGGTTCCTGAGGCACATC 488
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     424 CTGTGCCACTCCTCACACCCCACCTGGGAGGCCTGTCTTCGGTTCCTGAGGCACATC 483

Qy     489 -CTAACGCCAGTCTGACCATGTATGTCTGACCCCTGTCCCCACCCTGACCCTCCCATGG 548
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     484 CTAACGCCAAGTCTGACCATGTATGTCTGGCCCCGTGTCCCCACCCTGACCCTCCCATGG 543

Qy     549 CCCTCTCCAGGACTCCCACCCGGCGAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATG 608
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     544 CCCTCTCCAGGACTCCCACCCGGCAGATCCGTCTATTGACACAGATCCGCCTGCAGATG 603

Qy     609 GCCCCTCCAACCCTCTCGCTGCTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTG 668
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     604 GCCCCTCCAACCCTCTCTCTGCTGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTG 663

Qy     669 TGCTCAGGCACCTCTTCCCCCAGGAGCCTTCCCTGCCCCCAGCCTTATGACTTGAGCC 728
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     664 TGCTCAGGCACCTCTTCCCCCANGAAGCCTTCCCTGCCCCCATCATGACTTGAGCC 723

Qy     729 A-GGTCTGGTCCGTG---GTGTCCCCCGCACCCAGCACAGGGGACCAGGCACT--CAGGAGGG 782
            | ||||||||||||   |||||||||||||||||||||||||||||||||  ||||||||
Db     724 AGGGTCTGGTCCGTGGGGTGTCCCCCGCACCCCANCAGGGGGACCAGGCACTTCAAGGAGGG 783

Qy     783 CCCAGTAAAAGG 793
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Db     784 GCCGGTAAAGG 794
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```
RESULT 12
BM980213/c
LOCUS       BM980213    743 bp    mRNA    linear    EST 21-FEB-2003
DEFINITION  UI-CF-EN1-adf-h-09-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
            UI-CF-EN1-adf-h-09-0-UI 3', mRNA sequence.
ACCESSION   BM980213
VERSION     BM980213.1    GI:19601447
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 743)
  AUTHORS   Bonaldo,M.F., Lennon,G. and Soares,M.B.
  TITLE     Normalization and subtraction: two approaches to facilitate gene
            discovery
  JOURNAL   Genome Res. 6 (9), 791-806 (1996)
  MEDLINE   97044477
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Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

ORIGIN

Query Match   72.2%;   Score 702; DB 12; Length 735;
Best Local Similarity 99.6%; Pred. No. 1.7e-133;
Matches 735; Conservative 0; Mismatches 0; Indels 3; Gaps 3;

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Qy    88  GCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCTGGGGAGCAG  147
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1  GCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCTGGGGAGCAG   60

Qy   148  TGCTGGACCGCGGCATCGCGGCAGTTGGCCTCCTGACGTCATCAGCAGGCTGCAGC    207
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61  TGCTGGACCGCGGCATCGCGGCAGTTGGCCTCCTGACGTCATCAGCAAAGGCTGCAGC   120

Qy   208  TTGAACTGCGTGGATGACTCACAGGACTCACAGGACAAGAAGAACATCACGTGCTGT   267
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121  TTGAACTGCGTGGATGACTCACAGGACTCACAGGACAAGAAGAACATCACGTGCTGT   180

Qy   268  GACACCGACTTGTGCAACGCCAGCGGCGGCCCATGCCTGCGAGCCGGCCTCACATCCTT  327
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181  GACACCGACTTGTGCAACGCCAGCGGCGGCCCATGCCTGCGAGCCGGCCTCACATCCTT  240

Qy   328  GCGCTGCTCCCTGCTCGGCCTGCTGCTCGGGGACCGGCCAGCTATAGGCTCTGGGG    387
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241  GCGCTGCTCCCTGCTCGGCCTGCTGCTCGGGGACCGGCCAGCTATAGGCTCTGGGG   300

Qy   388  GGCCCCGCTGCAGCCCACACTGGGTGTGTCCGTTCCTGAGGCACATCCTAACGCAAGTCGACCAT  447
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301  GGCCCCGCTGCAGCCCACACTGGGTGTGTCCGTTCCTGAGGCACATCCTAACGCAAGTCGACCAT  360

Qy   448  CCTGGCCCAGTGGAGCCCTGTCCCTGGTTCCCCACCCTGACCCTCCAGGACTCCCAC  507
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361  CCTGGCCCAGTGGAGCCCTGTCCCTGGTTCCCCACCCTGACCCTCCAGGACTCCCAC  420

Qy   508  GTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCACCCTCTCCAGGACTCCCAC   567
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421  GTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCACCCTCTCCAGGACTCCCAC   480

Qy   568  CCGGCAGATCAGCTCTAGTAGTGACACAGATCCGGCTGGCAGATGGCCCCAACCCTCTCTG  627
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481  CCGGCAGATCAGCTCTAGTAGTGACACAGATCCGGCTGGCAGATGG-CCCTCCAACCCTCTCTG  539

Qy   628  CTGCGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGTGTCAGGCACCTCTTCCC  687
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   540  CTGCGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGTGTCAGGCACCTCTTCCC  599

Qy   688  CCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCGAGCCAGGTGTTGGTCCGTGGTC  747
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   600  CCAGGAAGCCTTCCCTG-CCACCCCATCTATGACTTGAGCGAGCCAGGTCTGGTCCGTGGGTC  658

Qy   748  CCCGCCACCAGGAGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGG  807
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   659  CCCGCCACCAGGAGGACAGGCACTCAGGAGGG--CCAGTAAAGGCTGAGATGAAGTGG  717

Qy   808  ACTGAGTAGAACTGGAGG  825
          ||||||||||||||||||
Db   718  ACTGAGTAGAACTGGAGG  735
```

RESULT 14
BU174241
LOCUS   BU174241   936 bp   mRNA   linear   EST 04-SEP-2002
DEFINITION AGENCOURT_8107306 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6267237
            5', mRNA sequence.
ACCESSION   BU174241
VERSION   BU174241.1 GI:22668225
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Second column (RESULT 13):

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Db   442  GGCCCTCCAGGACTCCCACCACCCTCTGCTGTGTCGTGTTCCATGGCCCAGCATTCTCCACCCTTAACCC  383
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   607  TGGCCCCTCCAACCCTCTCTGCTGTGTCGTGTTCCATGGCCCAGCATTCTCCACCCTTAACCC  666

Db   382  TGGCCCCTCCAACCCTCTCTGCTGTGTCGTGTTCCATGGCCCAGCATTCTCCACCCTTAACCC  323
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   667  TGTGTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCCCACCCCATCTATGACTTGAG  726

Db   322  TGTGTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCCCACCCCATCTATGACTTGAG  263
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   727  CCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAGGGGCCCA  786

Db   262  CCAGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAGGGGCCCG  203
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   787  GTAAAGGCTGAGATGAAGTGACTGAGTGAAGTGAGGACAAGAGAACTCGACGTGAGTCC  846

Db   202  GTAAAGGCTGAGATGAAGTGACTGAGTGAAGTGAGGACAAGAGAACTCGACGTGAGTTCC  143
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   847  TGGGAGTCTTCCAGAGATGGGGCCTGGAGGCCTGGAGGCCCAGGGGGCCCAGGGCCTCACATTCGT  906

Db   142  TGGGAGTCTTCCAGAGATGGGGCCTGGAGGCCTGGAGGCCCAGGGGGCCCAGGGCCTCACATTCGT  83
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   907  GGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGATA  966

Db    82  GGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATA  23
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   967  AGCCCA  972
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Db    22  AGCCAA  17
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RESULT 13
BM041997
LOCUS   BM041997   735 bp   mRNA   linear   EST 07-NOV-2001
DEFINITION 603615880F1 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:5420779 5',
            mRNA sequence.
ACCESSION   BM041997
VERSION   BM041997.1 GI:16771264
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 735)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM1875 row: o column: 20
            High quality sequence stop: 733.
FEATURES   Location/Qualifiers
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                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5420779"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
```

REFERENCE    Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS      1 (bases 1 to 936)
TITLE        NIH-MGC http://mgc.nci.nih.gov/.
             National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL      Unpublished (1999)
COMMENT      Contact: Robert Strausberg, Ph.D.
             Email: cgapbs-r@mail.nih.gov
             Tissue Procurement: DCTD/DTP
             cDNA Library Preparation: Rubin Laboratory
             cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
             DNA Sequencing by: Agencourt Bioscience Corporation
             Clone distribution: MGC clone distribution information can be
             found through the I.M.A.G.E. Consortium/LLNL at:
             http://image.llnl.gov
             Plate: LLCM2437  row: d  column: 22
             High quality sequence stop: 567.
FEATURES     Location/Qualifiers
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             /mol_type="mRNA"
             /db_xref="taxon:9606"
             /clone="IMAGE:6267237"
             /tissue_type="melanotic melanoma, cell line"
             /lab_host="DH10B (phage-resistant)"
             /clone_lib="NIH_MGC 112"
             /note="Organ: sKin; Vector: pOTB7; Site_1: XhoI; Site_2:
             EcoRI; cDNA made by oligo-dT priming. Directionally cloned
             into EcoRI/XhoI sites using the following 5' adaptor:
             GGCACGAG(G). Library constructed by Ling Hong in the
             laboratory of Gerald M. Rubin (University of California,
             Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
             Superscript II RT (Life Technologies). Note: this is a
             NIH_MGC Library."

ORIGIN

Query Match     71.5%;  Score 694.6; DB 13;  Length 936;
Best Local Similarity   95.3%;  Pred. No. 6.3e-13;
Matches  771;  Conservative    0;  Mismatches    29;  Indels    9;  Gaps     5;

Qy     12 GGCTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCT    71
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Db      1 GGCTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCT    60

Qy     72 GTGCTACTCCTGCAAAGCCCAGGTGAGCAACAGAGGACTGCCTGCAGGTGGGAACTGCAC    131
          ||||||||||||||||||||||||||||| |||||||||||||||||||||||||||||
Db     61 GTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGCAGAGGACTGCCTGCAGGTGGGAACTGCAC    120

Qy    132 CCAGCTGGGGAGCAGTGCTGGACACCGACTTGTGCAACGCCCATCCGCGCAGTTGGCCTTCCTGACCGTCAT    191
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 CCAGCTGGGGAGCAGTGCTGGACACCGACTTGTGCAACGCCCATCCGCGCAGTTGGCCTCCTGACCGTCAT    180

Qy    192 CAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAA    251
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 CAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAA    240

Qy    252 GAACATCACGTGCTGTGACACCGACTTGTGCAACGCCCAGCGCGGGGCCCATGCCCTGCCAGCC    311
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 GAACATCACGTGCTGTGACACCGACTTGTGCAACGCCCAGCGCGGGGCCCATGCCCTGCCAGCC    300

Qy    312 GGCTGCGGCCATCCTTGCGCTGCCTCCTGCACTCGGCCTGCTGCTCTGGGGGGACCCGGCCA    371
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301 GGCTGCTGCCATCCTTGCGCTGCCTCCTGCACTCGGCCTGCTGCTCTGGGGGACCCGGCCA    360

Qy    372 GCTATAGGCTCTGGGGGGGCCCCGCTGCAGCCCACACTGGGTGGTGCCCAGGCCTCTG    431
          | |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361 GCTCTAGGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGGTGCCCAGGCCTCTG    420

Qy    432 TGCCACTCCTCACAGACTGGCCCAGGTGGGAGGCGTCCTGGTTCCTGAGGCACATCCTA    491
          ||||||||||||||||||||||||||| |||||||||||||||||||||||||||||
Db    421 TGCCACTCCTCACACACCCGGCCAGGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTA    480

Qy    492 ACGCAAGTCTGACCATGTAGTGCTGGGCCCCTGACCCTCCCCATGGCCGT    551
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Db    481 ACGCAAGTCTGACCATGTATGTGCTGGGCCCCGTGTCCCCGTCTCCCCACCCTGACCCTCCCCATGGCCC    540

Db    552 TCTCCAGGACTCCCACCCGGCAGATCAGTCTTCAGTGACACAGATCGGCCTGCAGCAGGGCC    611
Qy    541 TCTCCAGGACTCCCCACCCGGCAGATCGGCTCTATTGACACAGATCGGCCTGCAGATGGCC    600

Qy    612 CCTCCAACCCTCTCGTGCTGTTTCCAT-GGCCCAGCATTCTCCACCCTTAACCCTGTG    670
          |||||||||||||||||||||||||  |||||||||||||||||||||||||||||
Db    601 CCTCCAAACCTCTGTGCTGTTTCCATGGGCCCAGCATTCTCCACCCTTAACCCTGTG    660

Qy    671 CTCAGGCACCTCTTCCCCAGGAAGCCTTCCC--TGCCACCCCATC---TATGACTTGA    725
          |||||||| |||||||||||||||||||||  |||||||||||||   ||||||||||
Db    661 CTCAAGCACCCTTTCCCCAGGAAGCCTTCCCCTGCCCCCATCCTCTATTGACTTTGA    720

Qy    726 GCCAGTCTGTCCGTGGTGTCCCCCGCACCCAGCA-GGGGACAGGCACTCAGGAGGCC    784
          |||||||||||||||||||||||||||||||||| |||||||||||||||||||||||
Db    721 GCCAGGCCGGGCCGTGGTGGTGCCCCGGACCCCCGCAGGGGGGACACGGGCACTCGGGAGGGGCC    780

Qy    785 CAG--TAAAGGCTGAGATGAAGTGGACTG    811
          |||  ||||||||||||||||||||||||
Db    781 CCGCTAAAGGCTGACATGAACGGGACTG    809

RESULT 15
BM980194/c
LOCUS       BM980194                 738 bp    mRNA    linear    EST 21-FEB-2003
DEFINITION  UI-CF-EN1-adf-d-13-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
            UI-CF-EN1-adf-d-13-0-UI 3', mRNA sequence.
ACCESSION   BM980194
VERSION     BM980194.1  GI:19601409
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 738)
AUTHORS     Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE       Normalization and subtraction: two approaches to facilitate gene
            discovery
JOURNAL     Genome Res. 6 (9), 791-806 (1996)
MEDLINE     97044477
PUBMED      8889548
COMMENT     Contact: McCray, PB
            McCray Lab
            University of Iowa
            2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
            Tel: 319 356 4866
            Fax: 319 356 7171
            Email: paul-mccray@uiowa.edu
            Tissue Procurement: Dr. M. J. Welsh, University of Iowa
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Researchers may obtain clones from Research
            Genetics (www.resgen.com) or from Open Biosystems
            (www.openbiosystems.com).
            Seq_primer: M13 FORWARD
            PolyA=Yes.
FEATURES    Location/Qualifiers
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            /mol_type="mRNA"
            /db_xref="taxon:9606"
            /clone="UI-CF-EN1-adf-d-13-0-UI"
            /tissue_type="Primary Lung Cystic Fibrosis Epithelial
            Cells"
            /dev_stage="Adult"
            /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
            /clone_lib="UI-CF-EN1"
            /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
            modified polylinker; Site_1: EcoR I; Site_2: Not I;
            UI-CF-EN1 is a normalized cDNA library containing the
            following tissue(s): Primary Lung Cystic Fibrosis

Search completed: September 18, 2004, 19:14:34
Job time : 4447.86 secs

Epithelial Cells. The library was constructed according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. First strand cDNA synthesis was primed with an
oligo-dT primer containing a Not I site. Double stranded
cDNA was ligated to an EcoR I adaptor, digested with Not
I, and cloned directionally into pT7T3-Pac vector. The
oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dT)18 tail. The
sequence tag for this library is CTGCTCAGGT.
TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
6hr to LPS 24h
TAG_LIB=UI-CF-EN1
TAG_SEQ=CTGCTCAGGT"

ORIGIN

Query Match      71.1%;   Score 691.4; DB 12;  Length 738;
Best Local Similarity  98.1%;  Pred. No. 2.5e-131;
Matches 709;  Conservative   0; Mismatches  13;  Indels   1;  Gaps    1;

Qy    250  AAGAACATCACGTGCTGTGACACCGACTTGTCAACGCCAGCGGGGCCATGCCCTGCAG  309
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Db    738  AAGAACATCACGTGCTGTGACACCGA-TTGTGAACGCCAGCGGGGCCCATGCCCTGCAG  680

Qy    310  CCGGCTGCCGCCATCCTTGCGCTGTCCCTGCACTCGGCCTCGGGGGACCCGGC  369
           |||||||||||||||||||| |||||||||||||||||||||| |||||||||
Db    679  CCGGCTGCTGCCATCCTTGCGCTGTCCCTGCACTCGGCCTCGGGCTCTGGNGACCCGGC  620

Qy    370  CAGCTATAGGCTCTGGGGGCCCCGGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTC  429
           |||||| |||||||||||||| ||||||||||||||||||||||||||||||||||||| |
Db    619  CAGCTCTAGGCTCTGGGGGCCCCCGTCAGCCCACACTGGGTGTGGTGCCCCAGGCCCTN  560

Qy    430  TGTGCCACTCCTCACAGACTGGGCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCC  489
           |||||||||||||| |||||||| |||||||||||||||||||||||||||||||||||
Db    559  TGTGCCACTCCTCACACACCCGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCC  500

Qy    490  TAACGCAAGTCTGACCATGTATGTCGCACCCCTGTCCCCACCCTGACCCTCCATGGC  549
           ||||||||||||||||||||||||| |||||||||||||||||||||||||||||||||
Db    499  TAACGCAAGTCTGACCATGTATGTCTGCGCCCCTGTCCCCACCCTGACCCTCCATGGC  440

Qy    550  CCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGG  609
           ||||||||||||||||||||||||||||||||| ||||||||||||||||||||||||||
Db    439  CCTCTCCAGGACTCCCACCCGGCAGATCGGCTCTATTGACACAGATCCGCCTGCAGATGG  380

Qy    610  CCCCTCCAACCCTCCTGCTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT  669
           ||||||||||||||| ||||||||||||||||||||||||||||||||||||||||
Db    379  CCCCTCCAACCCTCTCGCTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT  320

Qy    670  GCTCAGGCGACCTCTTCCCCAGGAAGCCTCCCTGCCACCCCATCTATGACTTGAGCCA  729
           ||||||||||||||||||||||||||||||||||||| ||||||||||||||||||||||
Db    319  GCTCAGGCGACCTCTTCCCCAGGAAGCCTCCCTGCCACCCCATCTATGACTTGAGCCA  260

Qy    730  GGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACACTCAGGAGAGGGCCCAGTA  789
           ||||||||||||||||||||||||||||||||||||||||||||||||||| |||||
Db    259  GGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACACTCAGGAGAGGGCCCGGTA  200

Qy    790  AAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGAGACAAGAGTCGACGTGAGTTCCTG  849
           |||||||||||||||||||||||||||||||||||||||| ||||||||||||||||||
Db    199  AAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGAGACAGGAGTCGACGTGAGTTCCTG  140

Qy    850  GAGTCTCCAGAGATGGGCCTTGGAGGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGG  909
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    139  GAGTCTCCAGAGATGGGGCCTTGGAGGGCCTGGAGGGCCTGGAGGCCTCACATTCGTGGG  80

Qy    910  GCTCCCTGAATGGCAGCCTGAGCAGCACAGCGTAGGCCCTTAATAAACACCTGTTGATAAGC  969
           ||||||||||||||||||||||||||| ||||||||||||||| |||||||||||||||||
Db    79   GCTCCCTGAATGGCAGCCTGAGCACAGCGGTAGGCCCTTAATAAACACCTGTTGATAAGC  20

Qy    970  CCA  972
           ||
Db    19   CAA  17

Blank Sheet

OM nucleic - nucleic search, using sw model

Copyright  GenCore version 5.1.6
Copyright (c) 1993 - 2004  Compugen Ltd.

Run on:        September 18, 2004, 04:35:58 ; Search time 5122.64 Seconds
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Title:         US-09-079-874-12
Perfect score: 1023
Sequence:      1 CATTTGAGGCCATATAAGT.........ACACCTGTTGGATAAGCCCA 1023

Scoring table: IDENTITY_NUC
               Gapop 10.0 , Gapext 1.0

Searched:      3470272 seqs, 2167151995 residues

Total number of hits satisfying chosen parameters:        6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :     GenEmbl:*
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           2:  gb_htg:*
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          41:  em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Match Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 977.4 | 95.5 | 979 | 6 | BD076397 | BD076397 Human pro |
| 2 | 970.4 | 94.9 | 1015 | 9 | BC023582 | BC023582 Homo sapi |
| 3 | 953.4 | 93.2 | 960 | 6 | AR410610 | AR410610 Sequence |
| 4 | 953.4 | 93.2 | 960 | 6 | AX201328 | AX201328 Sequence |
| 5 | 953.4 | 93.2 | 960 | 6 | AX697426 | AX697426 Sequence |
| 6 | 953.4 | 93.2 | 960 | 6 | BD075381 | BD075381 Secretory |
| 7 | 953.4 | 93.2 | 960 | 6 | BD172241 | BD172241 Secreted |
| 8 | 953.4 | 93.2 | 960 | 6 | BD172560 | BD172560 Secreted |
| 9 | 953.4 | 93.2 | 960 | 6 | BD172879 | BD172879 Secreted |
| 10 | 953.4 | 93.2 | 960 | 6 | BD173198 | BD173198 Secreted |
| 11 | 953.4 | 93.2 | 960 | 6 | BD175232 | BD175232 Secretory |
| 12 | 953.4 | 93.2 | 960 | 6 | AY358912 | AY358912 Homo sapi |
| 13 | 942.4 | 92.1 | 946 | 9 | HSA297436 | AJ297436 Homo sapi |
| 14 | 879.6 | 86.0 | 990 | 6 | AX014204 | AX014204 Sequence |
| 15 | 879.6 | 86.0 | 990 | 6 | BD205072 | BD205072 Human nuc |
| 16 | 879.6 | 86.0 | 990 | 6 | AF043498 | AF043498 Homo sapi |
| 17 | 879.6 | 86.0 | 998 | 6 | AR162849 | AR162849 Sequence |
| 18 | 879.6 | 86.0 | 998 | 6 | AR302232 | AR302232 Sequence |
| 19 | 879.6 | 86.0 | 998 | 6 | AX080304 | AX080304 Sequence |
| 20 | 879.6 | 86.0 | 998 | 6 | BD193367 | BD193367 Prostate |
| 21 | 875.8 | 85.6 | 998 | 6 | BD264314 | BD264314 PSCA: pro |
| 22 | 804 | 78.6 | 157839 | 2 | AC015718 | AC015718 Homo sapi |
| 23 | 788 | 77.0 | 100079 | 9 | AC108002 | AC108002 Homo sapi |
| 24 | 788 | 77.0 | 103247 | 2 | AF176678 | AF176678 Homo sapi |
| 25 | 786.4 | 76.9 | 105156 | 2 | AF235094 | AF235094 Homo sapi |
| 26 | 726.8 | 71.0 | 758 | 6 | AX014148 | AX014148 Sequence |
| 27 | 726.8 | 71.0 | 758 | 6 | BD205056 | BD205056 Human nuc |
| 28 | 451.4 | 44.1 | 494 | 6 | AR026974 | AR026974 Sequence |
| 29 | 372 | 36.4 | 372 | 6 | AX155553 | AX155553 Sequence |
| 30 | 367.4 | 35.9 | 369 | 6 | BD076387 | BD076387 Human pro |
| 31 | 335.2 | 32.8 | 372 | 6 | AX155569 | AX155569 Sequence |
| 32 | 333.6 | 32.6 | 372 | 6 | AX155567 | AX155567 Sequence |
| 33 | 304.8 | 29.8 | 373 | 6 | AX884747 | AX884747 Sequence |
| 34 | 304.8 | 29.8 | 373 | 6 | BD024357 | BD024357 Sequence |
| 35 | 303.8 | 29.7 | 373 | 6 | BD076969 | BD076969 5' EST of |
| 36 | 284 | 27.7 | 288 | 6 | AR026990 | AR026990 Sequence |
| 37 | 262.8 | 25.7 | 286 | 6 | AR026988 | AR026988 Sequence |
| 38 | 230 | 22.5 | 230 | 6 | AR026991 | AR026991 Sequence |
| 39 | 218.4 | 21.3 | 232 | 6 | AR026992 | AR026992 Sequence |
| 40 | 203.8 | 19.9 | 864 | 10 | AF319173 | AF319173 Mus muscu |
| 41 | 203.2 | 19.9 | 441 | 6 | AR162850 | AR162850 Sequence |
| 42 | 203.2 | 19.9 | 441 | 6 | AR302233 | AR302233 Sequence |
| 43 | 203.2 | 19.9 | 441 | 6 | AX080306 | AX080306 Sequence |
| 44 | 203.2 | 19.9 | 441 | 6 | BD193368 | BD193368 Prostate |
| 45 | 176 | 17.2 | 441 | 6 | BD264315 | BD264315 PSCA: pro |

ALIGNMENTS

RESULT 1
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LOCUS       BD076397               979 bp    DNA        linear    PAT 27-AUG-2002
DEFINITION  Human protein having transmembrane domain and DNA encoding the
            same.
ACCESSION   BD076397
VERSION     BD076397.1  GI:22622000
KEYWORDS    JP 2001519154-A/11.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 979)
  AUTHORS   Kato,S., Kimura,T., Sekine,S. and Kobayashi,M.
  TITLE     Human protein having transmembrane domain and DNA encoding the same

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JOURNAL    Patent: JP 2001519154-A 11 23-OCT-2001;
           SAGAMI CHEMICAL RESEARCH CENTER,PROTEGENE INC
COMMENT    OS   Homo sapiens (human)
           PN   JP 2001519154-A/11
           PD   23-OCT-2001
           PF   05-OCT-1998 JP 2000515001
           PI   SEISHI KATO,TOMOKO KIMURA,SHINGO SEKINE,MIDORI KOBAYASHI PC
           C12N15/09,C07K14/47,C12N5/10,C12N15/00,C12N5/00 CC   Human protein
           having transmembrane domain
           and DNA encoding the
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FEATURES        Location/Qualifiers
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ORIGIN

Query Match             95.5%;  Score 977.4;  DB 6;  Length 979;
Best Local Similarity   99.9%;  Pred: 7.3e-178;
Matches  978;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;

Qy   43 AGCCCACCAGTGACCATGAGAGGCTGTGCTTGCCCTGTGA TGGCAGGCTTGGCCCTG 102
         |||||||||||||||||||||||||||||||||||||||| |||||||||||||||||
Db    1 AGCCCACCAGTGACCATGAGAGGCTGTGCTTGCCCTGTGTTGATGGCAGGCTTGGCCCTG  60

Qy  103 CAGCCAGGCACTGCCCTGCTGTGTCTACTCTGCAAAGCCCAGTGAGCAACGAGGACTGC 162
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CAGCCAGGCACTGCCCTGCTGTGTCTACTCTGCAAAGCCCAGTGAGCAACGAGGACTGC 120

Qy  163 CTGCAGTGAGAGAACTGCACCCAGGTGGGGAGCAGTGGCGACCGGCCATCCGGCGCA 222
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121 CTGCAGTGAAGAACTGCACCCAGGTGGGGAGCAGTGGCGACCGGCCATCCGGCGCA 180

Qy  223 GTTGGCCTCCTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGATGACTCACAG 282
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  181 GTTGGCCTCCTGACCGTCATCAGCAAAGGCTGCAGCTTGAACTGCGTGATGACTCACAG 240

Qy  283 GACTACTACGTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGC 342
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241 GACTACTACGTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGC 300

Qy  343 GGGGGCCCATGCCCTGCAGCCGGCTGCCGCCATCCTTGCGGCTGCCTCCCTGCACTCGGCCTG 402
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  301 GGGGGCCCATGCCCTGCAGCCGGCTGCCGCCATCCTTGCGGCTGCCTCCCTGCACTCGGCCTG 360

Qy  403 CTGCTCTGGGGACCCGGCCAGCTATAGGCTTCTGGGGGGGCCCGCTGAGCCCACACTGGG 462
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Db  361 CTGCTCTGGGGACCCGGCCAGCTATAGGCTTCTGGGGGGGCCCGCTGAGCCCACACTGGG 420

Qy  463 TGTGGTGCCCCAGGCCTCTGTGCCACTCCTCACAGACCTGGGAGCCTGTCCT 522
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Db  421 TGTGGTGCCCCAGGCCTCTGTGCCACTCCTCACAGACCTGGGAGCCTGTCCT 480

Qy  523 GGTTCCTGAGCGACACATCCTAACGCAAGTCTGACCAATGATGCTGCACCCCTGTCCCCA 582
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  481 GGTTCCTGAGGCACACATCCTAACGCAAGTCTGACCAATGTATGTCTGCACCCCTGTCCCCA 540

Qy  583 CCCTGACCCCTCCAGGAGCCCTTCCAGGACTCCACCCCAGATCAGCTTCAGTGACAC 642
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  541 CCCTGACCCCTCCATGGCCCCTTCCAGGACTCCACCCCAGATCAGCTCTAGTGACAC 600

Qy  643 AGATCCGCTGCAGATGGCCCCTCTGCTGTTTCCATGGCCCAGCATT 702
         ||||||||||||||||||||||||||||||||||||||||||||||
Db  601 AGATCCGCTGCAGATGGCCCCTCTGCTGTTTCCATGGCCCAGCATT 660

Qy  703 CTCCACCTTAACCTGCGCTCAGGCACCTCTTCCCCGGGAAGCCTTCCCTGCCCACCC 762
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  661 CTCCACCTTAACCCTGCGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCC 720
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Qy  763 CATCTATGACTTGAGCAGCTCTGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGC 822
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  721 CATCTATGACTTGAGCCAGCTCTGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGC 780

Qy  823 ACTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTAGAGAACTGGAGGACAAGA 882
         |||||||||||||||||||||||||||||||||||||||| ||||||||||||||||||
Db  781 ACTCAGGAGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAGAACTGGAGGACAAGA 840

Qy  883 GTCGACGTGAGTTCCTGGGAGTCTTCCAGAGATGAGGCCTGGAGGCCTGGAGGAGGGGCC 942
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  841 GTCGACGTGAGTTCCTGGGAGTCTTCCAGAGATGAGGCCTGGAGGCCTGGAGGAGGGGGC 900

Qy  943 AGGCCTCACATTCGTGGGGCTCCCTGAATGGCCAGCACAGCAGGTAGGCCCTTAATA 1002
         ||||| ||||||||||||||||||||||||| |||||||||||| |||||||||||||
Db  901 AGGCCCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCACAGCCCTTAATA 960

Qy 1003 AACACCTGTTGGATAAGCC 1021
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Db  961 AACACCTGTTGGATAAGCC 979

RESULT 2
BC023582
LOCUS       BC023582                1015 bp    mRNA    linear   PRI 19-DEC-2003
DEFINITION  Homo sapiens prostate stem cell antigen, mRNA (cDNA clone MGC:22972
            IMAGE:4840974), complete cds.
ACCESSION   BC023582
VERSION     BC023582.2  GI:40225653
KEYWORDS    MGC.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 1015)
  AUTHORS   Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G.,
            Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D.,
            Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,
            Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F.,
            Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,
            Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L.,
            Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S.,
            Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J.,
            Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J.,
            McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S.,
            Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W.,
            Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A.,
            Fahey,J., Helton,E., Ketteman,M., Madan,A., Rodrigues,S.,
            Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y.,
            Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D.,
            Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M.,
            Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smailus,D.E.,
            Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
  TITLE     Generation and initial analysis of more than 15,000 full-length
            human and mouse cDNA sequences
  JOURNAL   Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
REFERENCE   2  (bases 1 to 1015)
  AUTHORS   Strausberg,R.
  TITLE     Direct Submission
  JOURNAL   Submitted (05-FEB-2002) National Institutes of Health, Mammalian
            Gene Collection (MGC), Cancer Genomics Office, National Cancer
            Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
            USA
  REMARK    NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT     On Dec 19, 2003 this sequence version replaced gi:23958165.
            Contact: MGC help desk
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC/DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC),
            Gaithersburg, Maryland;
            Web site: http://www.nisc.nih.gov/
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Db   301 GCCCTGCAGCCGGCTGCCGCCATCCTTGCGCTGGGCCTGCTCCTGCCCACTCGGCGCTGCTCTGG  360
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Qy   412 GGACCCGGCCAGTGTATAGGCTCTGGGGGCCCCGCTGCAGCCCGCTGGTGTGGTGTGCC  471
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Db   361 GGACCCGGCCAGTATAGGCTCTGGGGGCCCCGCTGCAGCCCACTCGGGTGTGGTGTGCC  420
         
Qy   472 CCAGGCCTGTGCCACTCCTCACAGACTGGCCGTGTCCTGGAGGCCTGTCCTGGTTCCTGA  531
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Db   421 CCAGGCCTGTGCCACTCCTCACAGACTGGCCGTGTCCTGGGGGAGGCCTGTCCTGGTTCCTGA  480

Qy   532 GGACATCCTAAGCAAGTCTGACCATGTATGTCTGACCCTGTCCCCACCCTGACCC  591
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 GGCACATCCTAACCAAGTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCC  540

Qy   592 TCCCATGGCCCTCCCAGGACTCCCACCCGGCAGATCAGCTCCAGTGACACAGATCCGCC  651
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Db   541 TCCCATGGCCCTCCCAGGACTCCCACCCGGCAGATCAGCTCCAGTGACACAGATCCCACCCT  600

Qy   652 TGCAGATGGCCCCTCCAACCCTCTCGTCTGTTCCATGGCCCAGCATTCTCCACCCT  711
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 TGCAGATGGCCCCTCCAACCCTCTCGTCTGTTCCATGGCCCAGCATTCTCCACCCT  660

Qy   712 TAACCCTGTGCTCAGGCGACCTTCCTCCCCAGGAAGCCTTCCTGCCACCCATCTATGA  771
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Db   661 TAACCCTGTGCTCAGGCGACCTTCCTCCCCAGGAAGCCTTCCTGCCACCCATCTATGA  720

Qy   772 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGACCCAGCAGGGACAGGCACTCAGGAG  831
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCCGACCCAGCAGGGACAGGCACTCAGGAG  780

Qy   832 GGGCCAGTAAAAGCTGAGATGAAGTGACTGAGTGAACTGAGAACTGAGAGTCGACGTG  891
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GGGCCAGTAAAAGCTGAGATGAAGTGACTGAGTGAACTGAGAACTGAGAGTCGACGTG  840

Qy   892 AGTTCCTGGGAGTTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC  951
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Db   841 AGTTCCTGGGAGTTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCAC  900

Qy   952 ATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCAGCAGGCCCTTAATAAACACCTGT  1011
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Db   901 ATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCAGCAGCAGGCCCTTAATAAACACCTGT  960

Qy   1012 TGGATAAGCCCA  1023
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Db   961 TGGATAAGCCAA  972
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RESULT 3
AR410610
LOCUS   AR410610   960 bp   DNA   linear   PAT 18-DEC-2003
DEFINITION   Sequence 17 from patent US 6635468.
ACCESSION   AR410610
VERSION   AR410610.1   GI:40162110
KEYWORDS   .
SOURCE   Unknown.
  ORGANISM   Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 960)
  AUTHORS   Ashkenazi,A., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
            Filvaroff,E., Fong,S., Gao,W.-Q., Gerber,H., Gerritsen,M.E.,
            Goddard,A., Godowski,P.J., Grimaldi,J.C., Gurney,A.L., Hillan,K.J.,
            Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,
            Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
  TITLE   Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: US 6635468-A 17 21-OCT-2003;
FEATURES   Location/Qualifiers
     source   1..960
                     /organism="unknown"
                     /mol_type="genomic DNA"
ORIGIN

Contact: nisc_mgc@nhgri.nih.gov
Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
Young,A., Zhang,L.-H. and Green,E.D.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Series: IRAL Plate: 33 Row: m Column: 19
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 5031994.

FEATURES   Location/Qualifiers
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                  /tissue_type="Skin, melanotic melanoma, high MDR."
                  /clone_lib="NIH_MGC_49"
                  /lab_host="DH10B-R"
                  /note="Vector: pOTB7"
  gene   1..1015
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                  /db_xref="MIM:602470"
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                  /protein_id="AAH23582.1"
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                  /db_xref="LocusID:8000"
                  /db_xref="MIM:602470"
                  /translation="MKAVLLALLMAGLALQPGTALLCYSCKAQVSNEDCLQVENCTQL
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  misc_feature   67..288
                  /gene="PSCA"
                  /note="UPAR_LY6; Region: u-PAR/Ly-6 domain. This
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                  pfam00087"
                  /db_xref="CDD:pfam00021"
ORIGIN

Query Match   94.9%;   Score 970.4;   DB 9;   Length 1015;
Best Local Similarity   99.9%;   Pred. No. 1.6e-176;
Matches 971;   Conservative   0;   Mismatches   0;   Indels   1;   Gaps   0;

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Qy    52 GTGACCATGAAGGCTGTGCTGCTTGCTCTGCTCATGGCTGGGCTTGCCCTGCAGCCAGGC  111
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Db     1 GTGACCATGAAGGCTGTGCTGCTTGCTCTGCTCATGGCTGGGCTTGCCCTGCAGCCAGGC  60

Qy   112 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG  171
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG  120

Qy   172 GAGAACTGCACCCAGCTGGGGAGCAGTGGCTGACCGCGCATCCGGGCAGTTGGCCTC  231
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Db   121 GAGAACTGCACCCAGCTGGGGAGCAGTGGCTGACCGCGCATCCGGGCAGTTGGCCTC  180

Qy   232 CTGACCGTCATCAGCAAGAAGGCTGCAGCTTGAAACTGCCTGAACTGCCTGATGACTCACAGGACTACTAC  291
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 CTGACCGTCATCAGCAAGAAGGCTGCAGCTTGAAACTGCCTGAACTGCCTGATGACTCACAGGACTACTAC  240

Qy   292 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACCTTGTGCAACGCCAGCGGGGCCCAT  351
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Db   241 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACCTTGTGCAACGCCAGCGGGGCCCAT  300

Qy   352 GCCCTGCAGCCGGCTGCCGCCATCCTTGCGCTGCTCCCTGCCACTCGGCGCTGCTCTGG  411
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ACCESSION   AX201328
VERSION   AX201328.1   GI:15391156
KEYWORDS   .
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS   Ashkenazi,A.J., Goddard,P.J., Godowski,P.J., Gurney,A.L.,
            Hillan,K.J., Marsters,S.A., Pan,J., Pitti,R.M., Roy,M.A., Smith,V.,
            Stone,D.M., Watanabe,C.K. and Wood,W.I.
TITLE   Compositions and methods for the treatment of tumour
JOURNAL   Patent: WO 015486-A 7 26-JUL-2001;
            Genentech, Inc. (US)
FEATURES   Location/Qualifiers
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                      /mol_type="unassigned DNA"
                      /db_xref="taxon:9606"
ORIGIN

Query Match   93.2%;   Score 953.4;   DB 6;   Length 960;
Best Local Similarity 99.9%;   Pred. No. 3e-173;
Matches 954;   Conservative 0;   Mismatches 1;   Indels 0;   Gaps 0;

Qy   69 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCACGCCAGGCACTGCCCTGCTGTGCTA 128
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Db   1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCACGCCAGGCACTGCCCTGCTGTGCTA 60

Qy 129 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
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Db   61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy 189 GGGGAGCAGTGCTGGACCGCGGCCATCCGGCAGTTGGCCTTCCTGACCGTCATCAGCAA 248
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Qy 249 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTGGGCAAGAAGAACAT 308
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Db 181 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTGGGCAAGAAGAACAT 240

Qy 309 CACGTGCTGTGACACCGACTTGTGCAACGCAGCGGGCCCATGCCCTGCGAGCCGGCTGC 368
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Qy 369 CGCCATCCTTGCGCTGCTCCCTGCACTGGGTGTGCCCAGGCCTTCTGCCAC 428
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Db 301 CGCCATCCTTGCGCTGCTCCCTGCACTGGGTGTGCCCAGGCCTTCTGCCAC 360

Qy 429 GGCTCGTCGGGGGCCCCGCTGCAGCCACACTGGGTGTGCCCAGCCTGTGCCAC 488
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Db 361 GGCTCGTCGGGGGCCCCGCTGCAGCCACACTGGGTGTGCCCAGCCTGTGCCAC 420

Qy 489 TCCTCACAGACCTGGCCAGTGGAGCCTTGTCCTGGTTCCTGAGGCACATCAGCAA 548
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Db 421 TCCTCACAGACCTGGCCAGTGGAGCCTTGTCCTGGTTCCTGAGGCACATCAGCAA 480

Qy 549 GTCTGACCATGTATGTCTGCACCCCTGTCCCACCCTGACCCTCCATGGCCCCTCCA 608
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Db 481 GTCTGACCATGTATGTCTGCACCCCTGTCCCACCCTGACCCTCCATGGCCCCTCCA 540

Qy 609 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGGCCCTCCA 668
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Db 541 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGGGCCCTCCA 600

Qy 669 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCTGCGAGATGGCCCCTCCA 728
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 601 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCTGCGAGATGGCCCCTCCA 660

Qy 729 ACCCTCTGCTGTTCATGGCCCTTAAACACCTGTTGGATPAAGCCCA 1023

Db   ACCCTCTGCTGTTCATGGCCCTTAAACACCTGTTGGATAAGCCAA 955

RESULT 4
AX201328
LOCUS   AX201328   960 bp   DNA   linear   PAT 30-AUG-2001
DEFINITION Sequence 7 from Patent WO0153486.

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Qy   789 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
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Db   721 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy   849 GATGAAGTGGACTGAGTAGAACTGGAGAGAAGAGTGCACGTGAGTTCCTGGGAGTCTCC 908
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Db   781 GATGAAGTGGACTGAGTAGAACTGGAGAGAAGAGTGCACGTGAGTTCCTGGGAGTCTCC 840

Qy   909 AGAGATGGGGCCTGGAGGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 968
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Db   841 AGAGATGGGGCCTGGAGGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy   969 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
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Db   901 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955


RESULT 5
AX697426
LOCUS       AX697426              960 bp    DNA       linear   PAT 02-APR-2003
DEFINITION  Sequence 17 from Patent WO0104311.
ACCESSION   AX697426
VERSION     AX697426.1  GI:29498554
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Ashkenazi,A.J., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
            Filvaroff,E., Fong,S., Gao,W.Q., Gerber,H., Gerritsen,M.E.,
            Goddard,A., Godowski,P.J., Grimaldi,C.J., Gurney,A.L., Hillan,K.J.,
            Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,
            Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
TITLE       Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
JOURNAL     Patent: WO 0104311-A 17 18-JAN-2001;
            Genentech Inc. (US)
FEATURES             Location/Qualifiers
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ORIGIN

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Db     1 GCTGCTTGCCCGTGTGATGGCAGGCTTGGCCTGCAGCCACTGCCCTGCTGTGCTA 60

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Qy   189 GGGGGAGCAGTGGCTGGACCCGCGCGCCGCATCCGCGCGATCACGCCTCCTGACCGTGCA 248
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Qy   369 CGCCATCCTTGCGCTGCCCTGCACTCGGCCTGCCCTGCTCTGGGGACCCGGCCAGCTATA 428
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Qy   429 GGCTCTGGGGGCCCGCTGCAGCCAACCACTGGGTGTGCCCAGGCTCTGTGCCAC 488
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Qy   489 TCCTCACAGACCTGGCCCAGTGGAGCTCGTGAGTTCCTGGGCACATCCTAACGCAA 548
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Qy   729 ACCTCTTCCCCAGGAAGCTTCCTGCCCACCCATCTATGACTTGAGCCAGGTCTGT 788
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Qy   849 GATGAAGTGGACTGAGTAGAACTGGAGAGAAGAGTGCACGTGAGTTCCTGGGAGTCTCC 908
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Qy   969 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
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LOCUS       BD075381              960 bp    DNA       linear   PAT 27-AUG-2002
DEFINITION  Secretory and transmembrane polypeptide and nucleic acid encoding
            the same.
ACCESSION   BD075381
VERSION     BD075381.1  GI:22620984
KEYWORDS    JP 2001516580-A/14.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
AUTHORS     Wood,W.I., Gurney,A.L., Goddard,A., Penica,D., Chen,J. and Yuan,J.
TITLE       Secretory and transmembrane polypeptide and nucleic acid encoding
            the same
JOURNAL     Patent: JP 2001516580-A 14 02-OCT-2001;
            GENENTECH INC
COMMENT     OS   Homo sapiens (human)
            PN   JP 2001516580-A/14
            PD   02-OCT-2001
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DEFINITION  Secreted and transmembrane polypeptides and nucleic acids encoding
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ACCESSION   BD172241
VERSION     BD172241.1  GI:28413539
KEYWORDS    JP 2002223786-A/14.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
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            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
            Yuan,J.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: JP 2002223786-A 14 13-AUG-2002;
            GENENTECH INC
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            PI   WILLIAM I WOOD,AUSTIN L GURNEY,AUDLEY GODDARD,DIANE PENICA, PI
                 JEAN CHEN,
            PI   JEAN YUAN
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Best Local Similarity 99.9%;  Pred. No. 3e-173;
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Qy    69 GCTGCTTGCCCGTTGTGATGGCAGGCTTGGCCCTTGCACTGCCCTGCTGTGCTA 128
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Qy   129 CTCCTGCAAAGCCCAGGTGAGCAGACGAGAGACTGCCTGCGAGGTGGAGAACTGCACCCAGCT 188
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JIAN ZHENG,
PI  JEAN YUAN
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    C12N5/10,
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CC  Secreted and transmembrane polypeptides and nucleic CC acids
encoding the same
FH  Key             Location/Qualifiers
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FT                  /organism="Homo sapiens (human)".

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ORIGIN

Query Match          93.2%;  Score 953.4;  DB 6;  Length 960;
Best Local Similarity 99.9%;  Pred. No. 3e-173;
Matches 954;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy    69 GCTGCTTGCCCTGTTGATGCAGGTTGGCCTGCAGCACTGCCCTGCTGTGCTA 128
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Qy   129 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy   189 GGGGGAGCAGTGCTGGACCCCGCCATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA 248
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGCTGGACCCCGCCATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy   249 AGGCTGCAGCTTGAACTGCGTGATGACTCACAGACTACACAGGGCAAGAAGAGAACAT 308
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Db   181 AGGCTGCAGCTTGAACTGCGTGATGACTCACAGACTACACAGGGCAAGAAGAGAACAT 240

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Qy   609 GGACTCCCACCCGGCAGATCAGCTCTTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 668
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LOCUS        BD172560            960 bp    DNA      linear    PAT 18-FEB-2003
DEFINITION   Secreted and transmembrane polypeptides and nucleic acids encoding
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ACCESSION    BD172560
VERSION      BD172560.1  GI:28413862
KEYWORDS     JP 2002238586-A/14.
SOURCE       Homo sapiens (human)
  ORGANISM   Homo sapiens
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REFERENCE    1  (bases 1 to 960)
  AUTHORS    Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
             Yuan,J.
  TITLE      Secreted and transmembrane polypeptides and nucleic acids encoding
             the same
  JOURNAL    Patent: JP 2002238586-A 14 27-AUG-2002;
             GENENTECH INC
COMMENT      OS  Homo sapiens (human)
             PN  JP 2002238586-A/14
             PD  27-AUG-2002
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             WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
             JIAN ZHENG,
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Db   781 GATGAAGTGGACTGACTAGTAGAACTGGAGGACCAAGAGTCGACGTGGAGTTCCTGGGAGTCTCC 840

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Qy   969 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACAACCTGTTGGATAAGCCCA 1023
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LOCUS        BD172879                960 bp    DNA        linear   PAT 18-FEB-2003
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ACCESSION    BD172879
VERSION      BD172879.1    GI:28414185
KEYWORDS     JP 2002238587-A/14.
SOURCE       Homo sapiens (human)
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REFERENCE    1  (bases 1 to 960)
  AUTHORS    Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
             Yuan,J.
  TITLE      Secreted and transmembrane polypeptides and nucleic acids encoding
             the same
  JOURNAL    Patent: JP 2002238587-A 14 27-AUG-2002;
             GENENTECH INC
  COMMENT    OS   Homo sapiens (human)
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             PD   27-AUG-2002
             PF   18-DEC-2001 JP 2001385248
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             WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
             JIAN ZHENG,
             PI   JEAN YUAN
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Matches  954;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;

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Qy   129 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGAGAACTGCACCCAGCT 188
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Qy   189 GGGGGAGCAGTGCTGGACCGCGGCATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA 248
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Db   301 CGCCATCCTTGGCGTGCTGCTCCCTGCACTCGGCCTGCGTCTGCTGGGAGACCCGGCCAGCTATA 360

Qy   429 GGGCTCTGGGGGGCCCGCTGCAGCCCACACTGGTGTGTGCCCAGGCCTCGTGTGCCAC 488
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Qy   489 TCCTCACAGACCTGGCCCAGTGGAGCGCTGTCCTGGTTCCTGAGGCACATCCTAAGCAA 548
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DEFINITION     Secreted and transmembrane polypeptides and nucleic acids encoding
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VERSION        BD173198.1  GI:28414507
KEYWORDS       JP 2002238588-A/14.
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               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1  (bases 1 to 960)
  AUTHORS      Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
               Yuan,J.
  TITLE        Secreted and transmembrane polypeptides and nucleic acids encoding
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  JOURNAL      Patent: JP 2002238588-A 14 27-AUG-2002;
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               JIAN ZHENG,
               PI   JEAN YUAN
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Qy   249  AGGCTGCAGCTTGAACTGCCTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 308
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Matches 954;  Conservative  0;  Mismatches  1;  Indels  1;  Gaps  0;

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Qy    549 GTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCCTCCCACCCTGACCCTCCCA 608
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Db    481 GTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCCTCCCACCCTGACCCTCCCA 540

Qy    609 GGACTCCCACCCGGCAGATCAGTCTAGTGACACAGATCCGCTGCTGACGATGGCCCCTCCA 668
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Db    541 GGACTCCCACCCGGCAGATCAGTCTAGTGACACAGATCCGCTGCTGACGATGGCCCCTCCA 600

Qy    669 ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCGTGTCTCAGGC 728
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Db    601 ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCGTGTCTCAGGC 660

Qy    729 ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCATCTATGACTTGAGCCAGGTCTGGT 788
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Db    661 ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy    789 CCGTGGTGTCCCCCGCCACCCAGCAGGGACCAGGCCCAGCTAAAGGCTGA 848
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Db    721 CCGTGGTGTCCCCCGCCACCCAGCAGGGACCAGGCCCAGCTAAAGGCTGA 780

Qy    849 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGGAGTCTCC 908
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Db    781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGGAGTCTCC 840

Qy    909 AGAGATGGGGCTGGAGGGAAGGGGCCAGGGCCTGGAGGGGCTCCCTG 968
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Db    841 AGAGATGGGGCTGGAGGGAAGGGGCCAGGGCCTGGAGGGGCTCCCTG 900

Qy    969 AATGGCAGCCTGAGCACAGCGTAGCCCTTAATAAACACCTGTTGGATAAGCCAA 1023
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Db    901 AATGGCAGCCTGAGCACAGCGTAGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 11
BD175232
LOCUS   BD175232   960 bp   DNA   linear   PAT 18-MAR-2003
DEFINITION   Secretory and transmembrane polypeptide and nucleic acid encoding
               the same.
ACCESSION   BD175232
VERSION   BD175232.1   GI:29120928
KEYWORDS   JP 2002253280-A/14.
SOURCE   Homo sapiens (human)
  ORGANISM   Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
  AUTHORS   Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
               Yuan,J.
  TITLE   Secretory and transmembrane polypeptide and nucleic acid encoding
               the same
  JOURNAL   Patent: JP 2002253280-A 14 10-SEP-2002;
               GENENTECH INC
COMMENT   OS   Homo sapiens (human)
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               PD   10-SEP-2002
               PF   18-DEC-2001 JP 2001385319
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               17-SEP-1997 US   60/059113,17-SEP-1997 US   60/059121 PR
               17-SEP-1997 US   60/059119,18-SEP-1997 US   60/059263 PR
               18-SEP-1997 US   60/059266,15-OCT-1997 US   60/062125 PR
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               21-OCT-1997 US   60/063486,24-OCT-1997 US   60/062816 PR
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               24-NOV-1997 US   60/066772,24-NOV-1997 US   60/066466 PR
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               24-NOV-1997 US   60/066453,25-NOV-1997 US   60/066840 PI
               WILLIAM I WOOD,AUSTIN L GURNEY,AUDREY GODDARD,DIANE PENNICA, PI
               JIAN ZHENG,
               PI   JEAN YUAN
               PC   C12N15/09,A61K45/00,A61P1/00,A61P13/12,A61P17/00,A61P17/06, PC
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               PC   C07K19/00,
               PC   C12N1/19,C12N1/21,C12N5/10//A61K38/00,A61K39/395,A61K39/395,
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ORIGIN

ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 960)
AUTHORS   Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
             Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B.,
             Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.E.,
             Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S.,
             Lee,J., Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C.,
             Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V.,
             Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieand,D., Woods,K.,
             Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
             Goddard,A., Wood,W.I. and Godowski,P.
TITLE   The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
             Effort to Identify Novel Human Secreted and Transmembrane Proteins:
             A Bioinformatics Assessment
JOURNAL   Genome Res. 13 (10), 2265-2270 (2003)
PUBMED   12975309
REFERENCE   2 (bases 1 to 960)
AUTHORS   Clark,H.F.
TITLE   Direct Submission
JOURNAL   Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
             Inc., 1 DNA Way, South San Francisco, CA 94080, USA
FEATURES   Location/Qualifiers
     source   1..960
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                     /protein_id="AAQ89271.1"
                     /db_xref="GI:37182941"
                     /translation="LLALMAGLALQPGTALLCYSCKAQVSNEDCLQVENCTQLGEQC
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ORIGIN

Query Match   93.2%; Score 953.4; DB 9; Length 960;
Best Local Similarity   99.9%; Pred. No. 3e-173;
Matches 954; Conservative   0; Mismatches   0; Indels   1; Gaps   0;

Qy   69 GTTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 128
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Db   1 GTTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 60

Qy   129 CTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAAGTGGAGAACTGCACCCAGCT 188
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Db   61 CTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAAGTGGAGAACTGCACCCAGCT 120

Qy   189 GGGGGAGCAGTGTTGGACCGCGCGATCCGCGGCATCCGCGGCACCGCGGCCTCATCAGCAA 248
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Db   121 GGGGGAGCAGTGTTGGACCGCGCGATCCGCGGCATCCGCGGCACCGCGGCCTCATCAGCAA 180

Qy   249 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 308
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Db   181 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 240

Qy   309 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGGTGC 368
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGGCGC 300

Qy   369 CGCCATCCTTGCGCTCTCCCTGCACTCGGCCTCGGCCTCTGCTCTGGGGACCCGGCAGCTATA 428
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Db   301 CGCCATCCTTGCGCTCTCCCTGCACTCGGCCTCGGCCTCTGCTCTGGGGACCCGGCAGCTATA 360

Qy   429 GGCTCTGGGGGCCCGCGCCCCGTGCCCAGCCAGCCCACTGGTGTGTGCCCCAGCCCTGTGCCAC 488
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTCTGGGGGCCCGCGCCCCGTGCCCAGCCAGCCCACTGGTGTGTGCCCCAGCCCTGTGCCAC 420

RESULT 12
AY358912

LOCUS   AY358912   960 bp   mRNA   linear   PRI 03-OCT-2003
DEFINITION Homo sapiens clone DNA34435 prostate stem cell A (UNQ206) mRNA,
            partial cds.
ACCESSION   AY358912
VERSION   AY358912.1 GI:37182941
KEYWORDS   FLI_CDNA.
SOURCE   Homo sapiens (human)

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                /note="GPI-anchored cell surface protein"
                /codon_start=1
                /product="prostate stem cell antigen"
                /protein_id="CAB97347.1"
                /db_xref="GI:9367212"
                /db_xref="GOA:O43653"
                /db_xref="SWISS-PROT:O43653"
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sig_peptide     20..79
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ORIGIN
Query Match       92.1%;   Score 942.4;   DB 9;   Length 946;
Best Local Similarity  99.9%;   Pred. No. 3.9e-171;
Matches  943;  Conservative  0;  Mismatches  0;  Indels  1;  Gaps  0;

Qy    41 ACAGCCCACCAGTGACCATGAAGGCTGTGCTGCTGGCCCTGTTGATGGCAGGCTTGGCCC 100
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Db     3 ACAGCCCACCAGTGACCATGAAGGCTGTGCTGCTGGCCCTGTTGATGGCAGGCTTGGCCC 62

Qy   101 TGCAGCCAGGGACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGTGAGCAGTGAGGAGACT 160
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Db    63 TGCAGCCAGGGACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGTGAGCAGTGAGGAGACT 122

Qy   161 GCCTGCAGGTGGAGAACTGACCCAGTGGACGGGGAGCAGTGTGACGCGCGCATCCGCG 220
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   123 GCCTGCAGGTGGAGAACTGACCCAGTGGACGGGGAGCAGTGTGACGCGCGCATCCGCG 182

Qy   221 CAGTTGGCCTCCTGACCGTCATCAGCAAAGCTGCAGCTTGACAACACGTGCTGCACGCCA 280
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   183 CAGTTGGCCTCCTGACCGTCATCAGCAAAGCTGCAGCTTGACAACACGTGCTGCACGCCA 242

Qy   281 AGGACTACTACGTGGGCAAGAAGAACATCACGTGCTGCACCGACTTGCTGCACGCCA 340
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Db   243 AGGACTACTACGTGGGCAAGAAGAACATCACGTGCTGCACCGACTTGCTGCACGCCA 302

Qy   341 GCGGGGCCCATGCCCTGCAGCCGGCACATCCTAACGCGGCTGCTCCTGCACTCGGCGGC 400
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Db   303 GCGGGGCCCATGCCCTGCAGCCGGCACATCCTAACGCGGCTGCTCCTGCACTCGGCGGC 362

Qy   401 TGCTGCTCTGGGGACCCGGCCAGCTATAGGCTCTGGGGGGCCCGCTGCAGCCGCCACACTG 460
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Db   363 TGCTGCTCTGGGGACCCGGCCAGCTATAGGCTCTGGGGGGCCCGCTGCAGCCGCCACACTG 422

Qy   461 GGTGTGTGCCCCAGGCCTCTGCCACTCCTCACAGACTCCACAGTGGGAGCCTGTC 520
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Db   423 GGTGTGTGCCCCAGGCCTCTGCCACTCCTCACAGACTCCACAGTGGGAGCCTGTC 482

Qy   521 CTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGATGTCTGCCACCCGTGTCCCC 580
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Db   483 CTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGATGTCTGCCACCCGTGTCCCC 542

Qy   581 CACCCTGACCCTCCACCTCCCATGGCCCTTCCCAGCGACTCCCGGCGATCAGCTCAGTGAC 640
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Qy   641 ACAGATCGCCTGCAGATGGCCGCAGATCCGCGAGATCGCCTGCTGTTTCATGGCCCAGCA 700
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Qy   701 TTCTCCACCCTTAACCCGTGCTCAGGCACCCTTCCCCAGGAGCCTTCCGTGCCCAC 760
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Db   663 TTCTCCACCCTTAACCCGTGCTCAGGCACCCTTCCCCAGGAGCCTTCCGTGCCCAC 722

Qy   761 CCCATCATGACTTGAGCCAGGTTCTGGTCCCGGTGTCCCCCGACCACCCAGCAGGGGACAG 820
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Db   361 GGCTCTGGGGGGCCCGCTGCAGCCACCACTGGTGTGGTGCCCCAGGCCTCTGTGCCAC 420
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Db   421 TCCTCACAGACCTGGCCAGTGGAGCCCGTCTCGGTTCCTGAGGCACATCCTAACGCAA 480
Qy   549 GTCTGACCATGTATGTCGCACCCTGTCCCCACCCTGACCCTCCATGGCCCTCTCCA 608
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Db   481 GTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCCTCCATGGCCCTCTCCA 540
Qy   609 GGACTCCCACCCGCAGATCAGCTAGTGACAGATCCGCCTGCAGATGCCCCTCCA 668
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Db   541 GGACTCCCACCCGCAGATCAGCTAGTGACAGATCCGCCTGCAGATGCCCCTCCA 600
Qy   669 ACCCTCTGCTGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 728
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Qy   729 ACCCTTCCCCAGGAAGCCTTCCTGCAGGGACACCTTCAGGAGGGCCCAGTGAGCCAGTCTGGT 788
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Qy   789 CCGTGGTGTCCCCCGCCACCCAGCAGGGACAGGGCACTCAGGAGGGCCAGTGAGTTCTGGGAGTCTCC 848
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Qy   849 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTAGAGTCTCC 908
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Db   781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTAGAGTCTCC 840
Qy   909 AGAGATGGGGCCTGGAGGCCTGGAGGGGGCCAGGGCCTCCACATTCGTGTGGGGTCCCTG 968
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Qy   969 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAAACACCTGTTGGATAAGCCCA 1023
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RESULT 13
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LOCUS       HSA297436       946 bp    mRNA    linear    PRI 13-OCT-2000
DEFINITION  Homo sapiens mRNA for prostate stem cell antigen (PSCA gene).
ACCESSION   AJ297436
VERSION     AJ297436.1  GI:9367211
KEYWORDS    prostate stem cell antigen; PSCA gene.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Bahrenberg,G., Brauers,A., Joost,H.G. and Jakse,G.
  TITLE     Reduced expression of PSCA, a member of the LY-6 family of cell
            surface antigens, in bladder, esophagus, and stomach tumors
  JOURNAL   Biochem. Biophys. Res. Commun. 275 (3), 783-788 (2000)
   MEDLINE  20431743
   PUBMED   10973799
REFERENCE   2  (bases 1 to 946)
  AUTHORS   Bahrenberg,G.
  TITLE     Direct Submission
  JOURNAL   Submitted (12-JUL-2000) Bahrenberg G., Institut fuer Pharmakologie
            und Toxikologie, RWTH Aachen, Wendlingweg2, Aachen, NRW, 52057,
            GERMANY
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Qy   941 CCAGGCCTCACATTCGTCGTGGGGCTCCCTGAATGGCAGCCTGAGCA 984
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RESULT 14
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LOCUS   AX014204   990 bp   DNA   linear   PAT 07-SEP-2000
DEFINITION   Sequence 108 from Patent WO9954447.
ACCESSION   AX014204
VERSION   AX014204.1 GI:10040611
KEYWORDS
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS   Schmitt,A., Specht,T., Dahl,E., Hinzmann,B., Rosenthal,A. and
             Pilarsky,C.
TITLE   Human nucleic acid sequences of bladder tumour tissue
JOURNAL   Patent: WO 9954447-A 108 28-OCT-1999;
             SCHMITT ARMIN (DE); SPECHT THOMAS (DE); DAHL EDGAR (DE); HINZMANN
             BERND (DE); ROSENTHAL ANDRE (DE); METAGEN GES FUER GENOMFORSCHUN
             (DE); PILARSKY CHRISTIAN (DE)
FEATURES   Location/Qualifiers
     source   1..990
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ORIGIN

Query Match   86.0%; Score 879.6; DB 6; Length 990;
Best Local Similarity 96.0%; Pred. No. 4.6e-159;
Matches 939; Conservative 0; Mismatches 34; Indels 5; Gaps 4;

Qy   50 CAGTGACCATGAAGGCTGTGCCTGTTGCCTGTTGCCCTGTTGCCTGTTGATGGCAGCCTGGCCTGCCAGCAGCCAG 109
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Db   10 CAGTGACCATGAAGGCTGTGCCTGTTGCCTGTTGCCCTGTTGATGGCAGCCTTGGCCCTGCCAGCAG 69

Qy   110 GCACTCGCCCTGTGTGTGCTACTCCTGCAAAGCCAGTGAGCAACGAGGACTGCCTGCAGG 169
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Db   70 GCACTCGCCCTGTGTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGG 129

Qy   170 TGGAGAACTGCACCCAGCTGGGGAGCAGTGCTGACCGCGCATCCGCGCCAGTTGGCC 229
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Db   310 ATGCCCTGCAGCCGGCGGCTGCCGCCATCCTTGCCTGCTCCCTGCTGCTCCCTGCTGCTCT 369

Qy   410 GGGGACCCGGCCAGCCATAGGCTCTGGGGGCCCGCCCCGTCGAGCCCCACACTGGGTGTGGTG 469
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Db   370 GGGGACCCGGCCAGCCATAGGCTCTGGGGGCCCGCCCCGTCGAGCCCCACACTGGGTGTGGTG 429

Qy   470 CCCAGGCCTCTGCCCACTCCTCACAG-ACCTGGCCCCAGTGGGAGCCTGTCCTGGTTCC 528
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Db   430 CCCAGGCCTTTGTGCCACTCCTCCACAGAACCTTGGCCCCCTGAGGCCCCTGCTCTCGGTTCC 489
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Qy   529 TGAGGCACATCCTAACGCAAGTCCAAGTTGACCATGATGTCTGTCACCCCTGTCCCCC--ACCCT 586

Db   490 TGAGGCACATCCTAACGCAAGTTGACCATGATGTTTGCACCCCTTTTCCCNAACCCT 549

Qy   587 GACCCTCCAT-GCCCCTCTCCAGGAGACTCCCACCCGGAGATCAGCTCTAGTGACACAGA 645
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Db   550 GACCTTCCCATGGCCCTTTTCCAGGAATTCCNACCNGGACGATCAGTTTTAGTGANACANA 609

Qy   646 TCCGCCTGCAGATGGCCCCTCCAACCCTCTCGTCGTGTTCCATGCCCAGCATCTC 705
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Db   610 TCCGCNTGCAGATGGCCCCTCCAACNTTNTGTTNGTTNTGNTGTTTCATGCCCAGCATTTTC 669

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               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy   826 CAGGAGGGCCAGTAAAGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTC 885
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   790 CAGGAGGGCCCCAGTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTT 849

Qy   886 GACTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGG 945
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Db   850 GACTGGAGTTCCTGGGAGTTTCCAGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGG 909

Qy   946 CCTCACAATTCGTGGGGCTCCCTGAAATGCAGCACAGCGTAGGCCCTAATAAAC 1005
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Db   910 CCTCACATTTGTGGGGNTCCC-GAATGGCAGCAGCCTGAGCACAGCGTAGGCCCTTAATAAAC 968

Qy   1006 ACCTGTTGGATAAGCCCA 1023
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Db   969 ACCTGTTGGATAAGCCAA 986

RESULT 15
BD205072
LOCUS   BD205072   990 bp   DNA   linear   PAT 17-JUL-2003
DEFINITION   Human nucleic acid sequence originating in cystic cancer tissue.
ACCESSION   BD205072
VERSION   BD205072.1 GI:33014842
KEYWORDS   JP 2002512023-A/26.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 990)
AUTHORS   Specht,T., Hinzmann,B., Schmitt,A., Pilarsky,C., Dahl,E. and
             Rosenthal.A.
TITLE   Human nucleic acid sequence originating in cystic cancer tissue
             tissue
JOURNAL   Patent: JP 2002512023-A 26 23-APR-2002;
             METAGEN GESELLSCHAFT FUER GENOM FORSCHUNG MBH
OS   Homo sapiens (human)
PN   JP 2002512023-A/26
PD   23-APR-2002
PF   15-APR-1999 JP 2000544779
PR   21-APR-1998 DE 198 18 619.3
PI   THOMAS SPECHT,BERND HINZMANN,ARMIN SCHMITT,CHRISTIAN PILARSKY,
PI   EDGAR DAHL,
PI   ANDRE ROSENTHAL
PC   C12N15/09,A61K38/00,A61K39/00,A61K39/395,A61K48/00,A61P13/10,
PC   A61P35/00,
PC   C07K14/47,C07K16/18,C12N5/10,C12P21/02,C12P21/08,C12Q1/68, PC
             C12N15/00,
PC   A61K37/02,C12N5/00
CC   Human nucleic acid sequence originating in cystic cancer   CC
             tissue

FH   Key   Location/Qualifiers
FT   source   1..990

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FEATURES              Location/Qualifiers
 source               1..990
                      /organism="Homo sapiens"
                      /mol_type="genomic DNA"
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ORIGIN

Query Match           86.0%;  Score 879.6;  DB 6;  Length 990;
Best Local Similarity 96.0%;  Pred. No. 4.6e-159;
Matches  939;  Conservative   0;  Mismatches  34;  Indels   5;  Gaps   4;

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           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      10 CAGTGACCATGAAGGCTGTGCTGCTTGCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAG    69

Qy     110 GCACTGCCCTGCTGCTACTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAGG    169
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      70 GCACTGCCCTGCTGCTACTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCAGG    129

Qy     170 TGGAGAACTGCACCCAGCTGGGGGAGCAGTGCTCGGACCCGCGCCATCCGGCCAGTTCGCC   229
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     130 TGGAGAACTGCACCCAGCTGGGGGAGCAGTGCTCGGACCCGCGCCATCCGGCCAGTTCGCC   189

Qy     230 TCCTGACCGTCATCAGCAAAGGTGCAGCTTGAACTGCGTGGATGATGACTCACAGGACTACT   289
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     190 TCCTGACCGTCATCAGCAAAGGTGCAGCTTGAACTGCGTGGATGATGACTCACAGGACTACT   249

Qy     290 ACGTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCC    349
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     250 ACGTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCC    309

Qy     350 ATGCCCTGCGAGCCGGCCGGCCCGCCCATCCTTGGCGTGCTCCCTGCGACTCGGCGTCTGCTCT   409
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     310 ATGCCCTGCGAGCCGGCCGGCCCGCCCATCCTTGGCGTGCTCCCTGCGACTCGGCGTCTGCTCT   369

Qy     410 GGGGACCCCGGCCAGCTAGAGGCTCTGGGGGGGCCCCGGCCCTGCAGCCCACACTGGGTGTGGTG   469
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     370 GGGGACCCCGGCCAGCTAGAGGCTCTGGGGGGGCCCCGGCCCTGCAGCCCACACTGGGTGTGGTG   429

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Db     430 CCCCAGGCCCTTGTGTGCCACTCCTCCTCACAGAACCTGGCCCAGTGGAGCCTCGTCCTCGGTTCC    489

Qy     529 TGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCC--ACCCT   586
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Db     490 TGAGGCACATCCTAACGCAAGTTTGACCATGTATGTTTCCACCCCTTTTCCCCNAACCCT   549

Qy     587 GACCCTCCCAT-GGCCCTCTCCAGGACTCCCAGGACTCCCAGCGAGATCAGCTCTAGTGACACAGA   645
           ||||||||||| ||||||||||||||||||||||||||||||||||||||||  ||||||||
Db     550 GACCTTCCCATGGGCCCCTTTTTCCAGGATTCCNACCNGGCAGATCAGTTTTTAGTGANACANA   609

Qy     646 TCCGCCTGCGAGATGGCCCCTCCAACCCTCTCTGCTGTTTCTGCGTGTTGNTGTTTCATTCTC   705
           ||||| |||||||||||||||||||||||| |||  |||  |||||  ||
Db     610 TCCGNTGCGAGATGGCCCCTCCAACCNTTNTGTTGNTGTTTCATGGCCCAGCATTTTC   669

Qy     706 CACCCTTAACCCTGTGCTCAGGCACCCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCAT   765
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Db     670 CACCCTTAACCCTGTGTTCAGGCACTTNTTCCCCCAGGAAGCCTTCCCTGCCCACCCCAT   729

Qy     766 CTATGACTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGACCCAGCGGGACAGGCACT   825
           |||||||| ||||||||| |||||  |||| || |||||||||||||||||||||
Db     730 TTATGAATTGAGCCAGGTTCAGGTTTTGGTCCGTGGTGTCCCCCGCACCCAGCGGGACAGGCAAT   789

Qy     826 CAGGAGGGGCCCAGTAAAGCGTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTC   885
           |||||||||||||||||||||||||||||||||||| ||||||||||||||||||||||
Db     790 CAGGAGGGGCCCAGTAAAGGCTAAAGGTGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTT   849

Qy     886 GACGTGAGTTCCTGGAGTTCTCCAGATGTCCCAGATGGGGCCTTGAGGGGAGGAAGGGGCCAGG   945
           ||||||||||||||||||||  |||||||||||||||||||||||||||||||||||||||
Db     850 GACGTGAGTTCCTGGAGTTTCCAGAGATGGGGCCTTGAGGGCCTGAGGACACAGCCAGG   909

Qy     946 CCTCACATTTGTGGGGCTCCCTGAATGGCAGCACAGCAGCCTGAGCACGCGTAGGCCCTTAATAAAC 1005
```

(right-hand continuation)

```
Db      910 CCTCACATTTGTGGGNTCCC-GAATGGCAGCCTGAGCACGCGTAGGCCCTTAATAAAC   968
            |||||||||||||||||||| ||||||||||  |||||||||||||||||||||||||

Qy     1006 ACCTGTTGGATAAGCCCA  1023
            |||||||||||||||| |
Db      969 ACCTGTTGGATAAGCCAA   986
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```
                    GenCore version 5.1.6
          Copyright (c) 1993 - 2004  Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:    September 18, 2004, 04:33:41 ; Search time 668.746 Seconds
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Title:          US-09-079-874-12
Perfect score:  1023
Sequence:       1 CATTTGGAGCGCCATATAAAGT.........ACACCTGTTGGATAAGCCCA 1023

Scoring table:  IDENTITY_NUC
                Gapop 10.0 , Gapext 1.0

Searched:       3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters:    6747726

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :    N_Geneseq_29Jan04:*
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              8: geneseqn2003bs:*
              9: geneseqn2003cs:*
             10: geneseqn2004s:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Query Length	DB	ID	Description
1	1023	100.0	1023	2	AAV80397	Aav80397 Consensus
2	1023	100.0	1023	2	AAV68613	Aav68613 Human PS1
3	1023	100.0	1023	2	AAV68614	Aav68614 Human PS1
4	1010.4	98.8	1028	9	ADE53926	Ade53926 Human pro
5	977.4	95.5	979	2	AAX36801	Aax36801 Human tra
6	972	95.0	972	2	AAV80396	Aav80396 Nucleotid
7	953.4	93.2	960	2	AAX52217	Aax52217 Protein P
8	953.4	93.2	960	6	AAF72375	Aaf72375 Human PRO
9	953.4	93.2	960	6	ABK40257	Abk40257 cDNA enco
10	953.4	93.2	960	7	ACA58909	Aca58909 Human PRO
11	953.4	93.2	960	7	ACA58306	Aca58306 cDNA enco
12	953.4	93.2	960	7	ACA60013	Aca60013 Human cDN
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14	953.4	93.2	960	7	ABX71461	Abx71461 Human cDN
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16	953.4	93.2	960	7	ABX96030	Abx96030 Human sec
17	953.4	93.2	960	7	ACA05351	Aca05351 cDNA enco
18	953.4	93.2	960	7	ACD20018	Acd20018 Human sec
19	953.4	93.2	960	7	ACA54821	Aca54821 Novel hum
20	953.4	93.2	960	8	ACD19656	Acd19656 Human sec
21	953.4	93.2	960	8	ADB29222	Adb29222 Human sec
22	953.4	93.2	960	8	ADA18078	Ada18078 Human sec
23	953.4	93.2	960	8	ACD66803	Acd66803 Human cDN
24	953.4	93.2	960	8	ACD82964	Acd82964 Human PRO
25	953.4	93.2	960	8	ADA16053	Ada16053 Human sec
26	953.4	93.2	960	8	ADA42198	Ada42198 Human PRO
27	953.4	93.2	960	8	ADA23142	Ada23142 Human PRO
28	953.4	93.2	960	8	ADA16477	Ada16477 Human sec
29	953.4	93.2	960	8	ADA12906	Ada12906 Human sec
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31	953.4	93.2	960	8	ADA17121	Ada17121 Human sec
32	953.4	93.2	960	8	ADA42624	Ada42624 Human sec
33	953.4	93.2	960	8	ACD23504	Acd23504 Human PRO
34	953.4	93.2	960	8	ADB77543	Adb77543 Human sec
35	953.4	93.2	960	9	ADB74679	Adb74679 Human sec
36	953.4	93.2	960	9	ADC28325	Adc28325 Human sec
37	953.4	93.2	960	9	ADC39525	Adc39525 Human sec
38	953.4	93.2	960	9	ADC40039	Adc40039 Human sec
39	953.4	93.2	960	9	ADC18867	Adc18867 Human sec
40	953.4	93.2	960	9	ADC34163	Adc34163 Human sec
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                            ALIGNMENTS

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RESULT 1
AAV80397
ID   AAV80397 standard; DNA; 1023 BP.
XX
AC   AAV80397;
XX
DT   23-FEB-1999  (first entry)
XX
DE   Consensus nucleotide sequence of UT116 gene.
XX
KW   UT116; urinary tract; epitope; antigen; detection; diagnosing;
KW   monitoring; in vivo imaging; cancer; agonist; antibody; tumour;
KW   metastasis; ss.
XX
OS   Homo sapiens.
XX
FH   Key              Location/Qualifiers
FT   CDS              58..429
FT                    /*tag= a
FT                    /product= "UT116 polypeptide"
XX
PN   WO9851824-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;  98WO-US009972.
XX
PR   15-MAY-1997;  97US-00856652.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Granados EN;
PI   Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L, Russell JC;
PI   Stroupe SD;
XX
DR   WPI; 1999-045237/04.
DR   P-PSDB; AAW86024.
XX
PT   New method for detecting diseases of the urinary tract - comprises use of
PT   a UT116 polynucleotide, protein or antibodies, used for preventing and
PT   treating urinary tract infections and cancer.
XX
PS   Claim 1; Fig 1A-C; 113pp; English.
XX
CC   This represents the consensus nucleotide sequence of the UT116 gene. The
CC   invention relates to a method of detecting the presence of a target UT116
```

```
CC   polynucleotide in a test sample using UT116-specific sequences (AAV80386
CC   to AAV80397). Host cells transfected with an expression vector containing
CC   the UT116 gene can be used to produce a UT116 polypeptide recombinantly.
CC   This polypeptide has at least one UT116 epitope which can be used in a
CC   method for detecting UT116 antigen in a test sample. The polynucleotides
CC   and polypeptides are useful for detecting, diagnosing, monitoring,
CC   staging, prognosticating, in vivo imaging, preventing, treating or
CC   determining the predisposition of a subject to diseases and conditions of
CC   the urinary tract, such as urinary tract cancer. Antibodies specifically
CC   binding to an epitope of UT116 antigen, and agonists are useful for
CC   treating urinary tract diseases, tumours and metastases
XX
SQ   Sequence 1023 BP; 194 A; 350 C; 288 G; 191 T; 0 U; 0 Other;
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Query Match   100.0%; Score 1023; DB 2; Length 1023;
Best Local Similarity   100.0%; Pred. No. 1.7e-224;
Matches 1023; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy     61 AAGGCTGTGCTGCTGCCCTGTTGACGGAGGTTGGCCTGGAGCCTGCAGGCACTGCCCTG 120
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Db     61 AAGGCTGTGCTGCTGCCCTGTTGACGGAGGTTGGCCTGGAGCCTGCAGGCACTGCCCTG 120

Qy    121 CTGTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGC 180
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Qy    181 ACCAGCTGGGGAGCAGTGCTGACCGCGCGCCATCCGCGACCAGTTGGCCTTCCTGACCGTC 240
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Qy    241 ATCAGCAAAGGCTGCAGCTTGACTGCGTGGATGACTCACAGGACTACTACGTGGGAAG 300
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Db    241 ATCAGCAAAGGCTGCAGCTTGACTGCGTGGATGACTCACAGGACTACTACGTGGGAAG 300

Qy    301 AAGAACATCACGTGCTGTGACACCGACTTGTCAACGCCAGCGGGGCGGGCCCATGCCCTGCAG 360
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Db    301 AAGAACATCACGTGCTGTGACACCGACTTGTCAACGCCAGCGGGGCGGGCCCATGCCCTGCAG 360

Qy    361 CCGGTGCGCCGCCATCCTTGCGCTGCCTCCGTGCTCGGCCTGCTCTGGGGACCCCGGC 420
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Db    361 CCGGTGCGCCGCCATCCTTGCGCTGCCTCCGTGCTCGGCCTGCTCTGGGGACCCCGGC 420

Qy    421 CAGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGGTGTGGTGCGCCCCAGGCCTC 480
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421 CAGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGGTGTGGTGCGCCCCAGGCCTC 480

Qy    481 TGTGCCACTCCTCACAGACCTGGCCCAGTGGAGGCCTGTCCCGGTTCCTGAGGCACATCC 540
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481 TGTGCCACTCCTCACAGACCTGGCCCAGTGGAGGCCTGTCCCGGTTCCTGAGGCACATCC 540

Qy    541 TAACGCAAGTCTGACCATGTATGCTCGACCCCTGTCCCCACCCTCCACCCTCGACCCTCCATGGC 600
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541 TAACGCAAGTCTGACCATGTATGCTCGACCCCTGTCCCCACCCTCCACCCTCGACCCTCCATGGC 600

Qy    601 CCTCTCCAGGACTCCACCCGGCAGATCAGCTTCAGTGACACAGATCCGCCTGCAGATGG 660
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601 CCTCTCCAGGACTCCACCCGGCAGATCAGCTTCAGTGACACAGATCCGCCTGCAGATGG 660

Qy    661 CCCTCCAACCCTCCTGCTGCGTGTTCCATGGCCCAGCATTCTCCACCCTTGT 720
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Db    661 CCCTCCAACCCTCCTGCTGCGTGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT 720

Qy    721 GCTCAGGCACCTCTTCCCCAGGAAGCCTTCCTGCCACCCATCTATGACTTGAGCCA 780
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721 GCTCAGGCACCTCTTCCCCAGGAAGCCTTCCTGCCACCCATCTATGACTTGAGCCA 780

Qy    781 GGTCTGGTCGTGCTGGTGTCCCCGCGTGTCCCCGCCAGCAGGGGACTCAGGAGGGCCCAGTA 840
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781 GGTCTGGTCGTGCTGGTGTCCCCGCGTGTCCCCGCCAGCAGGGGACTCAGGAGGGCCCAGTA 840

Qy    841 AAGGCTGCTGAGATGAAGTGGACTGAGTAGTAGAACTGGAGGACAGAGTGCGACGTGAGTCCTGG 900
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841 AAGGCTGCTGAGATGAAGTGGACTGAGTAGTAGAACTGGAGGACAGAGTGCGACGTGAGTCCTGG 900

Qy    901 GAGTCTCCAGAGATGGGGCCTGGAGCCTGGAGGAGAAGGGGCCCAGGCCTCACATTCGTGGG 960
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Db    901 GAGTCTCCAGAGATGGGGCCTGGAGCCTGGAGGAGAAGGGGCCCAGGCCTCACATTCGTGGG 960

Qy    961 GCTCCTGAATGGCAGCCTGAGCACAGCTAGGCCCTTAATAAACACTGTTGGATAAGC 1020
          |||||||||||||| || |   |||| ||||||||||||||||| |||||||||||
Db    961 GCTCCCTGAATGGCACAGCGTAGGCACAGCGTAGGCCCTTAATAAACACCGTTGGATAAGC 1020

Qy   1021 CCA 1023
          |||
Db   1021 CCA 1023
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RESULT 2
AAV68613
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ID   AAV68613 standard; cDNA; 1023 BP.
XX
AC   AAV68613;
XX
DT   16-MAR-1999  (first entry)
XX
DE   Human PS116 EST clone 1543671IH.
XX
KW   Human; expressed sequence tag; EST; prostate disease; diagnosis; tumour;
KW   detection; therapy; prostate cancer; metastasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO9851805-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;    98WO-US010041.
XX
PR   15-MAY-1997;    97US-00856653.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA,  Cohen M,  Colpitts TL,  Friedman PN,  Gordon J;
PI   Granados EN,  Hodges SC,  Klass MR,  Kratochvil JD,  Roberts-Rapp L;
PI   Russell JC,  Stroupe SD;
XX
DR   WPI; 1999-045234/04.
XX
PT   New method for detecting diseases of the prostate - comprises use of a
PT   PS116 polynucleotide, protein or antibodies, useful for preventing and
PT   treating prostate infections and cancer.
XX
PS   Claim 1; Page 94; 118pp; English.
XX
CC   This sequence represents an expressed sequence tag (EST) clone of the
CC   PS116 gene isolated from a human prostate tissue library. This sequence
CC   can be used in the method of the invention for detecting a target PS116
CC   polynucleotide (PN), that comprises: contacting a sample with at least 1
CC   PS116-specific PN or complement; and detecting the target PS116 PN, where
CC   the specific PN has at least 50% identity with this sequence. The PN,
CC   PS116 polypeptides or PS116 amplicons are used to detect prostate
CC   disease. Antibodies (ABs) against PS116 are used in assay kits to detect
CC   PS116 antigen or anti-PS116 Ab, and the Abs are preferably attached to a
CC   solid phase. The polypeptides are used for detecting PS116-specific Abs
CC   in a sample, and for producing Abs after immunising a subject. Plasmids
CC   encoding PS116 epitopes can also be administered to a subject to obtain
CC   Abs. The cDNAs and polypeptides are useful for detecting, diagnosing,
CC   staging, monitoring, prognosticating, in vivo imaging, preventing,
CC   treating or determining the predisposition of a subject to diseases and
CC   conditions of the prostate, such as prostate cancer. The Abs and agonists
CC   or inhibitors are useful for treating prostate diseases, tumours and
CC   metastases
```

```
Db    961 GCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGC 1020
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy   1021 CCA 1023
             |||
Db   1021 CCA 1023
```

RESULT 3
AAV68614
```
ID   AAV68614 standard; cDNA; 1023 BP.
XX
AC   AAV68614;
XX
DT   16-MAR-1999  (first entry)
XX
DE   Human PS116 EST clone consensus sequence.
XX
KW   Human; expressed sequence tag; EST; prostate disease; diagnosis; tumour;
KW   detection; therapy; prostate cancer; metastasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO9851805-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998;   98WO-US010041.
XX
PR   15-MAY-1997;   97US-00856653.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Gordon J;
PI   Granados EN, Hodges SC,   Klass MR,   Kratochvil JD,   Roberts-Rapp L;
PI   Russell JC,  Stroupe SD;
XX
DR   WPI; 1999-045234/04.
XX
PT   New method for detecting diseases of the prostate - comprises use of a
PT   PS116 polynucleotide, protein or antibodies, useful for preventing and
PT   treating prostate infections and cancer.
XX
PS   Claim 1; Page 94; 118pp; English.
XX
CC   This sequence represents an expressed sequence tag (EST) clone of the
CC   PS116 gene isolated from a human prostate tissue library. This sequence
CC   can be used in the method of the invention for detecting a target PS116
CC   polynucleotide (PN), that comprises: contacting a sample with at least 1
CC   PS116-specific PN or complement; and detecting the target PS116 PN, where
CC   the specific PN has at least 50% identity with this sequence. The PNs,
CC   PS116 polypeptides or PS116 amplicons are used to detect prostate
CC   disease. Antibodies (ABS) against PS116 are used in assay kits to detect
CC   PS116 antigen or anti-PS116 Ab, and the Abs are preferably attached to a
CC   solid phase. The polypeptides are used for detecting PS116-specific Abs
CC   in a sample, and for producing Abs after immunising a subject. Plasmids
CC   encoding PS116 epitopes can also be administered to a subject to obtain
CC   Abs. The cDNAs and polypeptides are useful for detecting, diagnosing,
CC   staging, monitoring, prognosticating, in vivo imaging, preventing,
CC   treating or determining the predisposition of a subject to diseases and
CC   conditions of the prostate, such as prostate cancer. The Abs and agonists
CC   or inhibitors are useful for treating prostate diseases, tumours and
CC   metastases
XX
SQ   Sequence 1023 BP; 194 A; 350 C; 288 G; 191 T; 0 U; 0 Other;
```

Query Match   100.0%;   Score 1023;   DB 2;   Length 1023;
Best Local Similarity   100.0%;   Pred. No. 1.7e-224;
Matches 1023;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

```
Qy     1 CATTTGAGGCCATATAAAGTCACCTGAGCCCTTCCACCAGCCCACCAGTGACCATG 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1 CATTTGAGGCCATATAAAGTCACCTGAGCCCTTCCACCAGCCCACCAGTGACCATG 60
```

```
XX
SQ   Sequence 1023 BP; 194 A; 350 C; 288 G; 191 T; 0 U; 0 Other;
```

Query Match   100.0%;   Score 1023;   DB 2;   Length 1023;
Best Local Similarity   100.0%;   Pred. No. 1.7e-224;
Matches 1023;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

```
Qy     1 CATTTGAGGCCATATAAAGTCACCTGAGCCCTTCCACCAGCCCACCAGTGACCATG 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1 CATTTGAGGCCATATAAAGTCACCTGAGCCCTTCCACCAGCCCACCAGTGACCATG 60

Qy    61 AAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCGAGCCACTGCCCTG 120
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 AAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCGAGCCACTGCCCTG 120

Qy   121 CTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGC 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 CTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGC 180

Qy   181 ACCCAGCTGGGGAGCAGTGCTGCTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAG 240
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 ACCCAGCTGGGGAGCAGTGCTGCTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAG 240

Qy   241 ATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAG 300
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 ATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAG 300

Qy   301 AAGAACATCACGTGCTGTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCTGCAG 360
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 AAGAACATCACGTGCTGTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCTGCAG 360

Qy   361 CCGGCTGCCGCCATCCTTGCGCTGCCTGCACTCGGCCTGCTCTGGGGACCCGGC 420
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 CCGGCTGCCGCCATCCTTGCGCTGCCTGTCCCCGCACCCGGCCTGCTCTGGGGACCCCGC 420

Qy   421 CAGTTATAGGCTCTCGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTC 480
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 CAGTTATAGGCTCTCGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTC 480

Qy   481 TGTGCCACTCCTCACAGACAGCTGGGCCAGTGGGAGCCTGTCTGGTTCCTGAGGCACATCC 540
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 TGTGCCACTCCTCACAGACAGCTGGGCCAGTGGGAGCCTGTCTGGTTCCTGAGGCACATCC 540

Qy   541 TAACGCAAGTCTGACCATGTATGTCTGCACCCCGTCTCCCCACCCTGACCCTCCCATGGC 600
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 TAACGCAAGTCTGACCATGTATGTCTGCACCCCGTCTCCCCACCCTGACCCTCCCATGGC 600

Qy   601 CCTCTCCCAGAGACTCCCACCCCGGCAGATCAGCTCTCAGTGACACAGATCCGCCTGCAGATGG 660
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 CCTCTCCCAGAGACTCCCACCCCGGCAGATCAGCTCTCAGTGACACAGATCCGCCTGCAGATGG 660

Qy   661 CCCCTCCAACCCTCTCGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT 720
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 CCCCTCCAACCCCTCTCGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT 720

Qy   721 GCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCCACCCATCTATGACTTGAGCCA 780
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 GCTCAGGCACCTCTTCCCCAGGAGCCTTCCCTGCCACCCATCTATGACTTGAGCCA 780

Qy   781 GGTTCGTGGTCCGGTGTCCCCCGCACCCAGCAGGGGACACTCAGGAGGGGCCCAGTA 840
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GGTTCGTGGTCCGGTGTCCCCCGCACCCAGCAGGGGACACTCAGGAGGGGCCCAGTA 840

Qy   841 AAGGCTGAGATGAAGTGGACTGGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGG 900
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AAGGCTGAGATGAAGTGGACTGGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGG 900

Qy   901 GAGTCTTCCAGAGATGGGGCTGGAGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCCTCACATTCGTGGG 960
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901 GAGTCTTCCAGAGATGGGGCTGGAGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCCTCACATTCGTGGG 960

Qy   961 GCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGC 1020
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AC   ADE53926;
XX
DT   29-JAN-2004 (first entry)
XX
DE   Human prostate cancer cDNA #273.
XX
KW   Human; prostate cancer; ss; cDNA combination; differential expression;
KW   gene.
XX
OS   Homo sapiens.
XX
PN   US2003190640-A1.
XX
PD   09-OCT-2003.
XX
PF   29-MAY-2002; 2002US-00252157.
XX
PR   31-MAY-2001; 2001US-0295048P.
XX
PA   (FARI/) FARIS M.
PA   (PEAR/) PEARSON C I.
XX
PI   Faris M, Pearson CI;
XX
DR   WPI; 2003-831619/77.
XX
PT   New combination comprising cDNAs that are differentially expressed in
PT   prostate cancer, useful for diagnosing, treating or monitoring the
PT   progression of treatment of prostate cancer.
XX
PS   Claim 1; SEQ ID NO 273; 42pp; English.
XX
CC   The invention relates to a combination comprising a number of cDNAs
CC   expressed in prostate cancer. The invention also relates to a method for
CC   detecting differential expression of one or more cDNAs in a sample
CC   containing nucleic acids by hybridising a substrate with the nucleic
CC   acids, thus forming one or more hybridisation complexes, detecting
CC   hybridisation complex formation and comparing the complexes formed with
CC   standard complexes, where differences between the standard and the sample
CC   complex formation indicate differential expression of cDNAs in the
CC   sample. The differential expression is diagnostic of prostate cancer. The
CC   invention also relates to proteins and antibodies related to the cDNAs.
CC   The combination is useful for diagnosing, treating or monitoring the
CC   progression of treatment of prostate cancer. The antibodies are useful
CC   for detecting prostate cancer. This sequence represents a human prostate
CC   cancer cDNA of the invention.
XX
SQ   Sequence 1028 BP; 199 A; 350 C; 288 G; 191 T; 0 U; 0 Other;

Query Match             98.8%;  Score 1010.4;  DB 9;  Length 1028;
Best Local Similarity   99.8%;  Pred. No. 1.3e-221;
Matches 1022;  Conservative   0;  Mismatches   1;  Indels   1;  Gaps   1;
```

```
Qy    1 CATTTGAGGCCATATAAAGTCACCTGAGGCCCTCTCCACCACAGCCCACAGTGACCATG  60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 CATTTGAGGCCATATAAAGTCACCTGAGGCCCTCTCCACCACAGCCCACAGTGACCATG  60

Qy   61 AAGGCTGTGCTGCTGCCCTGTTGCTGATGAGGCTTGGCAGGCCTGCAGCCACTGCCCTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 AAGGCTGTGCTGCTGCCCTGTTGCTGATGAGGCTTGGCAGGCCTGCAGCCACTCCCCTG 120

Qy  121 CTGTGCTACTCCTGCAAAGCCCAGTGACTGAGCAACGAGGACTGCCTGCAGGTGAGAACTGC 180
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121 CTGTGCTACTCCTGCAAAGCCCAGTGACTGAGCAACGAGGACTGCCTGCAGGTGAGAACTGC 180

Qy  181 ATCAGCAAAGGCTGCAGCTTGAACTGCGTGGTGATGACTGACTCACAGGACTCACGTGGGCAAG 240
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  181 ATCAGCAAAGGCTGCAGCTTGAACTGCGTGGTGATGACTGACTCACAGGACTCACGTGGGCAAG 240

Qy  241 AAGAACATCACGTGCTGTGTGACACCGACTTGTGCAACGGCCAGCGGGGCCCATGCCCTGCAG 300
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241 AAGAACATCACGTGCTGTGTGACACCGACTTGTGCAACGGCCAGCGGGGCCCATGCCCTGCAG 300
```

```
Qy   61 AAGGCTGTGCTGCTGCCCTGTTGATGCAGCTTGGCCCTGCAGCCAGGCACTGCCCTG 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 AAGGCTGTGCTGCTGCCCTGTTGATGCAGCTTGGCCCTGCAGCCAGGCACTGCCCTG 120

Qy  121 CTGTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGGTGAGAACTGC 180
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121 CTGTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGGTGAGAACTGC 180

Qy  181 ACCCAGTCTGGGGAGCAGTGCTGCAGCTTGTGCAACGCGCCATGCCCAGGCCATGCCCTGCAGTC 240
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  181 ATCAGCAAAGGCTGCAGCTTGAACTGCGTGGTGATGACTGACTCACAGGACTCACGTGGGCAAG 240

Qy  241 AAGAACATCACGTGTCTGTGACACCGACTTGTGCAACGGCCCATGCCCTGCAG 360
        |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241 AAGAACATCACGTGTCTGTGACACCGACTTGTGCAACGGCCCATGCCCTGCAG 360

Qy  361 CCGGCTGCCGCCATCCTTGCGCTGCTCCCTGCGACTCGGCGACTCGGGGGACCCGGGC 420
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  361 CCGGCTGCCGCCATCCTTGCGCTGCTCCCTGCGACTCGGCGACTCGGGGGACCCGGGC 420

Qy  421 CAGTATAGGCTCTGGGGGCGCCCGCTGCGAGCCCACACTGGGTGTGGTGCGCCCAGGCCTC 480
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  421 CAGTATAGGCTCTGGGGGCGCCCGCTGCGAGCCCACACTGGGTGTGGTGCGCCCAGGCCTC 480

Qy  481 TGTGCCACTCCTCACAGACCTGGCCCAGTGGCCGCCTGCGTTCCTGGTTCCTGAGGCACATCC 540
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  481 TGTGCCACTCCTCACAGACCTGGGCCCAGTGGCCGCCTGCGTTCCTGGTTCCTGAGGCACACATCC 540

Qy  541 TAACGCAAGTCTGACCATGTATGTCGCACCCGTGTCCCCACCCTTCCCATGGC 600
        ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  541 TAACGCAAGTCTGACCATGTATGTCGCACCCGTGTCCCCACCCTTCCCATGGC 600

Qy  601 CCTCTCCAGGACTCCACCGGCAGATCAGTCTAGTGACACAGATCCGCCTGCGACAGATGG 660
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  601 CCTCTCCAGGACTCCACCGGCAGATCAGTCTAGTGACACAGATCCGCCTGCGACAGATGG 660

Qy  661 CCCCTCCAACCCCTCTGCTGCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT 720
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  661 CCCCTCCAACCCCTCTGCTGCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT 720

Qy  721 GCTCAGGCACCTGCTTCCCCAGGAAGCCTTCCCCAGCACCCCCATCTATGACTTGAGCCA 780
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  721 GCTCAGGCACCTGCTTCCCCAGGAAGCCTTCCCCAGCACCCCCATCTATGACTTGAGCCA 780

Qy  781 GGTCTGGTCGTGTGTCCCCGACCCAGGACCAGAGGGGCCCAGTA 840
        |||||||||||||||||||||||||||||||||||||||||||
Db  781 GGTCTGGTCGTGTGTCCCCGACCCAGGACCAGAGGGGCCCAGTA 840

Qy  841 AAGGCTGAGATGAAGTGGACTGAGAACTGGAGAGAAGAGTCGACGTGAGTTCCTGG 900
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  841 AAGGCTGAGATGAAGTGGACTGAGAACTGGAGAGAAGAGTCGACGTGAGTTCCTGG 900

Qy  901 GAGTCTCCAGAGATGGGGGCCTGGAGGGGCCTGGAGGGGCCAGCCTCACATTCGTGGG 960
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  901 GAGTCTCCAGAGATGGGGGCCTGGAGGGGCCTGGAGGGGCCAGCCTCACATTCGTGGG 960

Qy  961 GCTCCCTGAATGCAGCCTGAGCACCACAGCCTTAATAAACACCTGTTGGATAAGC 1020
        |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  961 GCTCCCTGAATGCAGCCTGAGCACCACAGCCTTAATAAACACCTGTTGGATAAGC 1020

Qy 1021 CCA 1023
        |||
Db 1021 CCA 1023
```

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RESULT 4
ADE53926
ID   ADE53926 standard; cDNA; 1028 BP.
XX
```

XX
PF   05-OCT-1998;   98WO-JP004475.
XX
PR   08-OCT-1997;   97JP-00276271.
XX
PA   (SAGA) SAGAMI CHEM RES CENT.
PA   (PROT-) PROTEGENE INC.
XX
PI   Kato S, Yamaguchi T, Sekine S, Kobayashi M;
XX
DR   WPI; 1999-277268/23.
DR   P-PSDB; AAY13938.
XX
PT   Human transmembrane proteins and nucleotide sequences.
XX
PS   Claim 4; Page 104-105; 139pp; English.
XX
CC   This sequence encodes a human transmembrane protein of the invention. All
CC   of the proteins exist in the cell membrane, so are considered to be
CC   proteins controlling the proliferation and differentiation of the cells.
CC   They may be useful as carcinostatic agents or as antigens for preparing
CC   antibodies against the proteins. The cDNAs can be used as probes for gene
CC   diagnosis and gene sources for gene therapy, as well as for large-scale
CC   expression of the proteins. The HP01498 (see AAY13939) protein may be
CC   associated with signal transduction associated with apoptosis, and
CC   therefore useful in inhibition of apoptosis. The HP01962 (see AAY13943)
CC   protein can be used to treat diseases associated with
CC   phopshatidylethanolamine N-methyltransferase. The proteins are identified
CC   by the presence of a hydrophobic transmembrane region, knowledge of the
CC   protein function is not required, as in e.g. methods of expression
CC   cloning
XX
SQ   Sequence 979 BP; 183 A; 334 C; 280 G; 182 T; 0 U; 0 Other;

Query Match   95.5%; Score 977.4; DB 2; Length 979;
Best Local Similarity   99.9%; Pred. No. 4.7e-214;
Matches 978; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   43 AGCCCACCAGTGACCATGAAGGCTGTGCTGCCCGTTGTGCTTGTGATGGCAACGCCCAGC 102
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 AGCCCACCAGTGACCATGAAGGCTGTGCTGCCCGTTGTGCTTGTGATGGCAACGCCCAGC 60

Qy   103 CAGCCAGGCACTGCCCTGCTCCTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGGACTGC 162
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CAGCCAGGCACTGCCCTGCTCCTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGGACTGC 120

Qy   163 CTGCAGGTGGAGAACTGCACCCAGCTGGGGAGCAGTGCTGCTGGACCGGCAGTCATCCGGCCA 222
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 CTGCAGGTGGAGAACTGCACCCAGCTGGGGAGCAGTGCTGCTGGACCGGCAGTCATCCGGCCA 180

Qy   223 GTTGGCGTCCTGACCGTCATCAGCAAAGCTGAGCTTGAACTGCGAGCTTGAACTGCTCACAG 282
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 GTTGGCCTCCTGACCGTCATCAGCAAAGCTGAGCTTGAACTGCGAGCTTGAACTGCTCACAG 240

Qy   283 GACTACTACGTGGGCAAGAAGAACATCACGTGCGCGCCGGCTGCTGACACCGACTGCTGGCAGCCCAGC 342
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 GACTACTACGTGGGCAAGAAGAACATCACGTGCGCGCCGGCTGCTGACACCGACTGCTGGCAGCCCAGC 300

Qy   343 GGGGCCATGTGCGCCGGCTGGCGCCATCCTGCGCTGTCCCTGCACTCGGCCTG 402
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 GGGGCCATGTGCGCCGGCTGGCGCCATCCTGCGCTGTCCCTGCACTCGGCCTG 360

Qy   403 CTGCTCTGGGGACCCGGCCAGCTATAGGCTCTGGGGCCCCTACAGCCCACACTGGG 462
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 CTGCTCTGGGGACCCGGCCAGCTATAGGCTCTGGGGCCCCGGCCCAGCCCACACTGGG 420

Qy   463 TGTGGTGCCCCAGGCCTCTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTCCT 522
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 TGTGGTGCCCCAGGCCTCTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTCCT 480

Qy   523 GGTTCCTGAGGCACATCCTAACGCAAGTGTACCATGTATGTCTGCACCCGTCCCCCA 582
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 GGTTCCTGAGGCACATCCTAACGCAAGTGTACCATGTATGTCTGCACCCGTCCCCCA 540

Qy   301 AAGAACATCACGTGCTGTGACACCGACTTGTGCAAACGCCCAGCCGGGGGGCCCATGCCCTGCAG 360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 AAGAACATCACGTGCTGTGACACCGACTTGTGCAAACGCCCAGCCGGGGGGCCCATGCCCTGCAG 360

Qy   361 CCGGCTGCGCCATCCTTGCGCCATCCTTGCGCTCCTGCGACTCGGCTCGGACCCGGC 420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 CCGGCTGCGCCGGCATCCTTGCGCTCCTGCGCTCCTGCGACTCGGCTCGGGGGACCCGGC 420

Qy   421 CAGCTATAGGCTCGTGCAGCCACACTGGGTGTGCTGGTGTGTGCCCCAGGCCT 479
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 CAGCTATAGGCTCGTGCAGCCACACTGGGTGTGCTGGTGTGTGCCCCAGGCCT 480

Qy   480 CTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATC 539
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 CTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATC 540

Qy   540 CTAACGCAAGTCTGACCATGTATGTCTGCACCCGTCCCCCACCCCCATGG 599
          ||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 CTAACGCAAGTCTGACCATGTATGTCTGCACCCGTCCCCCACCCCCATGG 600

Qy   600 CCCTCTCCAGGACTCCCACCCGGCAGATCAGTCTTAGTGACACAGATCCGCTGCAGATG 659
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 CCCTCTCCAGGACTCCCACCCGGCAGATCAGTCTTAGTGACACAGATCCGCTGCAGATG 660

Qy   660 GCCCCTCCAACCCCTCTGCTGCTGTTTCCATGGCCCAGCCAGCAATTCTCCACCCCTTAACCCTG 719
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 GCCCCTCCAACCCCTCTGCTGTGTTTCCATGGCCCAGCCAGCAATTCTCCACCCCTTAACCCTG 720

Qy   720 TGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGACTTGAGCC 779
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 TGCTCAGGCACCTCTTCCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGACTTGAGCC 780

Qy   780 AGTCTGGTCCGTGCGTGTCCCCCACCCAGCAGGGGACCAGGCACTCAGGAGGGGACCCCAGT 839
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 AGTCTGGTCCGTGCGTGTCCCCCACCCAGCAGGGGACCAGGCACTCAGGAGGGGCCCCAGT 840

Qy   840 AAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTG 899
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTG 900

Qy   900 GGAGTCTCCAGAGATGGGGCCTGAGGGCCAGGGCCAGGGCCTCACATTCGTGG 959
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901 GGAGTCTCCAGAGATGGGGCCTGAGGGCCTGGAGGGGCCAGGGCCTCACATTCGTGG 960

Qy   960 GGCTCCCCTGAATGGCAGCCTGAGCAACAGGGTAGCCCTTAATAAACACCTGTTGGATAAG 1019
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   961 GGCTCCCCTGAATGGCAGCCTGAGCAACAGGGTAGCCCTTAATAAACACCTGTTGGATAAG 1020

Qy 1020 CCCA 1023
          || ||
Db 1021 CCAA 1024

RESULT 5
AAX36801
ID   AAX36801 standard; DNA; 979 BP.
XX
AC   AAX36801;
XX
DT   14-JUL-1999   (first entry)
XX
DE   Human transmembrane protein coding sequence, HP01244.
XX
KW   Transmembrane protein; human; cell membrane; proliferation; diagnosis;
KW   cell differentiation; carcinostatic agent; probe; gene therapy;
KW   signal transduction; apoptosis; inhibitor;
KW   phopshatidylethanolamine N-methyltransferase; ss.
XX
OS   Homo sapiens.
XX
PN   WO9918203-A2.
XX
PD   15-APR-1999.

```
PT   a UT116 polynucleotide, protein or antibodies, used for preventing and
PT   treating urinary tract infections and cancer.
XX
PS   Claim 1; Fig 1A-C; 113pp; English.
XX
CC   Sequences AAV80386 to AAV80396 represent partially overlapping nucleotide
CC   sequences of the UT116 gene-specific clones derived from urinary tract
CC   tissue. The invention relates to a method of detecting the presence of a
CC   target UT116 polynucleotide in a test sample using these UT116-specific
CC   sequences. Host cells transfected with an expression vector containing
CC   the UT116 gene can be used to produce a UT116 polypeptide recombinantly.
CC   This polypeptide has at least one UT116 epitope which can be used in a
CC   method for detecting UT116 antigen in a test sample. The polynucleotides
CC   and polypeptides are useful for detecting, diagnosing, monitoring,
CC   staging, prognosticating, in vivo imaging, preventing, treating or
CC   determining the predisposition of a subject to diseases and conditions of
CC   the urinary tract, such as urinary tract cancer. Antibodies specifically
CC   binding to an epitope of UT116 antigen, and agonists are useful for
CC   treating urinary tract diseases, tumours and metastases
XX
SQ   Sequence 972 BP; 180 A; 330 C; 280 G; 182 T; 0 U; 0 Other;

Query Match         95.0%;   Score 972;   DB 2;   Length 972;
Best Local Similarity   100.0%;   Pred. No. 8.1e-213;
Matches  972;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy     52  GTGACCATGAAGGCTGTGTGCTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC  111
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1  GTGACCATGAAGGCTGTGTGCTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC   60

Qy    112  ACTGCCCTGCTGCTACTCCTGCGTGCTGCCCAGGTGAGCAACGAGGACTGCCTCGAGGTG  171
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61  ACTGCCCTGCTGCTACTCCTGCGTGCTGCCCAGGTGAGCAACGAGGACTGCCTCGAGGTG  120

Qy    172  GAGAACTGACCCCAGCTGGGGAGGAGCAGTGCTGACGACCGCGGCCATCCGCGGCAGTTGGCCTC  231
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121  GAGAACTGACCCCAGCTGGGGAGGAGCAGTGCTGACGACCGCGGCCATCCGCGGCAGTTGGCCTC  180

Qy    232  CTGACCGTCATCAGCAAAGGCTGCAGTTGAACTGCGTTGATGACTGATGACTCACGACTACTAC  291
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181  CTGACCGTCATCAGCAAAGGCTGCAGTTGAACTGCGTTGATGACTGATGACTCACGACTACTAC  240

Qy    292  GTGGGGAAGAAGAACATCAGTGCTGTCGTGACACCGGACTTGTGCAACGCCAGCGGGCCCCAT  351
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241  GTGGGGAAGAAGAACATCAGTGCTGTCGTGACACCGGACTTGTGCAACGCCAGCGGGCCCCAT  300

Qy    352  GCCCTGCAGCCGGCGGTGCCCGCCATCCTTGCCGCGTGCCACTCGGCCTGCTCTGG  411
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301  GCCCTGCAGCCGGCGGTGCCCGCCATCCTTGCCGCGTGCCACTCGGCCTGCTCTGG  360

Qy    412  GGACACCGGCCAGCTATAGGCTCTGGGGGCCCCACTGGTCAGCCCACTGGTGTGTGCC  471
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361  GGACACCGGCCAGCTATAGGCTCTGGGGGCCCCACTGGTCAGCCCACTGGTGTGTGCC  420

Qy    472  CCAGGCCTGTGCACTCCTCAGACTGGGAGCCTGTCCTGGTTCCTGA  531
           ||||||||||||||||||||||||||||||||||||||||||||||
Db    421  CCAGGCCTGTGCACTCCTCAGACTGGGAGCCTGTCCTGGTTCCTGA  480

Qy    532  GGCACATCTAACGCAAGTCGACCATGTATGTCTCCCCACCCTGACCC  591
           |||||||||||||||||||||||||||||||||||||||||||||||
Db    481  GGCACATCTAACGCAAGTCGACCATGTATGTCTCCCCACCCTGACCC  540

Qy    592  TCCCATGGCCCTCTCAGGACTCCACCCGGCAGATCCGGC  651
           |||||||||||||||||||||||||||||||||||||||
Db    541  TCCCATGGCCCTCTCAGGACTCCACCCGGCAGATCCGGC  600

Qy    652  TGCAGATGGCCCCTCTCGCTGTTTCCATGGCCCAGCATTCTCCACCCT  711
           ||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  TGCAGATGGCCCCTCTCGCTGTTTCCATGGCCCAGCATTCTCCACCCT  660

Qy    712  TAACCCTGTGTCAGGCACTTCCCTGCCCACCCATCATGA  771
           |||||||||||||||||||||||||||||||||||||||
Db    661  TAACCCTGTGTCAGGCACTTCCCTGCCCACCCATCATGA  720
```

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Qy    583  CCCTGACCCTCCCATGGCCTCCCAGGACTCCAGGAGACTCCACCCGGCAGATCAGTCTTAGTGACAC  642
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541  CCCTGACCCTCCCATGGCCCTCCCAGGACTCCAGGAGACTCCACCCGGCAGATCAGTCTTAGTGACAC  600

Qy    643  AGATCCGCCTGCAGATGGCGCCCTCCAACCCTCTGCTGTTTCCATGGCCCAGCATT  702
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  AGATCCGCCTGCAGATGGCGCCCTCCAACCCTCTGCTGTTTCCATGGCCCAGCATT  660

Qy    703  CTCCACCCTTAACCCTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCC  762
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661  CTCCACCCTTAACCCTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCC  720

Qy    763  CATCTATGACTTGAGCCAGGTCGTCCGTGGTCCCCCGCCACCCAGCAGGGGACAGGC  822
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721  CATCTATGACTTGAGCCAGGTCGTCCGTGGTCCCCCGCCACCCAGCAGGGGACAGGC  780

Qy    823  ACTCAGGAGGGGCCAGTAAAGCTGAGATGAAGTGGACTGAGAACTGAGGACAAGA  882
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781  ACTCAGGAGGGGCCAGTAAAGCTGAGATGAAGTGGACTGAGAACTGAGGACAAGA  840

Qy    883  GTGCACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCC  942
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841  GTGCACGTGAGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGGC  900

Qy    943  AGGGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGAGGTAGGCCCTTAATA  1002
           ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901  AGGGCCTCACATTCGTGGGGCTCCCTGAATGGCACAGAGGTAGGCCCTTAATA   960

Qy   1003  AACACCTGTTGGATAAGCC  1021
           |||||||||||||||||||
Db    961  AACACCTGTTGGATAAGCC   979
```

```
RESULT 6
AAV80396
ID   AAV80396 standard; DNA; 972 BP.
XX
AC   AAV80396;
XX
DT   23-FEB-1999 (first entry)
XX
DE   Nucleotide sequence of UT116 gene-specific clone 1543671IH.
XX
KW   UT116; urinary tract; epitope; antigen; detection; diagnosing;
KW   monitoring; in vivo imaging; cancer; agonist; antibody; tumour;
KW   metastasis; ss.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   CDS             7..378
FT                   /tag= a
FT                   /product= "UT116 polypeptide"
XX
PN   WO9851824-A1.
XX
PD   19-NOV-1998.
XX
PF   15-MAY-1998; 98WO-US009972.
XX
PR   15-MAY-1997; 97US-00856652.
XX
PA   (ABBO ) ABBOTT LAB.
XX
PI   Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Granados EN;
PI   Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L, Russell JC;
PI   Stroupe SD;
XX
DR   WPI; 1999-045237/04.
DR   P-PSDB; AAW86024.
XX
PT   New method for detecting diseases of the urinary tract - comprises use of
```

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Qy      772  CTTGAGCCAGGTCGGTCCGTGGTGTCCCCGACCCAGCAGGGACAGGCACTCAGGAG   831
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      721  CTTGAGCCAGGTCTGGTCCGTGGTGTCCCCGACCCAGCAGGGACAGGCACTCAGGAG  780

Qy      832  GGCCCAGTAAAGGCTGAGATGAAGCTGAGTAGAACTGGAGGACAAGAGTCGACGTG   891
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      781  GGCCCAGTAAAGGCTGAGATGGACTGAGTGAGTAGAACTGGAGACAAGAGTCGACGTG  840

Qy      892  AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGGGCCAGGCCTCAC   951
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      841  AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGACAAGAGGGGCCAGGCCTCAC  900

Qy      952  ATTCGTGGGGCTCCCTGAATGGCAGCCAGCACAGCGTAGGCCCTTAATAAACACCTGT   1011
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      901  ATTCGTGGGGCTCCCTGAATGGCAGCCAGCACAGCCTGAGCCGTAGGCCCTTAATAAACACCTGT  960

Qy     1012  TGGATAAGCCCA   1023
             ||||||||||||
Db      961  TGGATAAGCCCA   972
```

RESULT 7
AAX52217
ID   AAX52217   standard; DNA; 960 BP.
XX
AC   AAX52217;
XX
DT   25-JUN-1999 (first entry)
XX
DE   Protein PRO232 cDNA clone DNA34435-1140.
XX
KW   Secreted protein; transmembrane protein; human; enterocolitis;
KW   Zollinger-Ellison syndrome; gastrointestinal ulceration;
KW   congenital microvillus atrophy; skin disease; cell growth;
KW   abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW   Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
KW   dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;
KW   wound healing; tissue repair; ss.
XX
OS   Homo sapiens.
XX
PN   WO991432B-A2.
XX
PD   25-MAR-1999.
XX
PF   16-SEP-1998; 98WO-US019330.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
PR   17-SEP-1997; 97US-0059121P.
PR   17-SEP-1997; 97US-0059122P.
PR   17-SEP-1997; 97US-0059184P.
PR   18-SEP-1997; 97US-0059263P.
PR   18-SEP-1997; 97US-0059266P.
PR   15-OCT-1997; 97US-0062125P.
PR   17-OCT-1997; 97US-0062285P.
PR   17-OCT-1997; 97US-0062287P.
PR   21-OCT-1997; 97US-0063486P.
PR   24-OCT-1997; 97US-0062814P.
PR   24-OCT-1997; 97US-0062816P.
PR   24-OCT-1997; 97US-0063045P.
PR   24-OCT-1997; 97US-0063120P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063128P.
PR   27-OCT-1997; 97US-0063327P.
PR   27-OCT-1997; 97US-0063329P.
PR   28-OCT-1997; 97US-0063541P.
PR   28-OCT-1997; 97US-0063542P.
PR   28-OCT-1997; 97US-0063544P.
PR   28-OCT-1997; 97US-0063549P.
PR   28-OCT-1997; 97US-0063550P.
PR   28-OCT-1997; 97US-0063564P.
PR   29-OCT-1997; 97US-0063435P.
PR   29-OCT-1997; 97US-0063704P.
PR   29-OCT-1997; 97US-0063732P.
PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064248P.
PR   07-NOV-1997; 97US-0064800P.
PR   12-NOV-1997; 97US-0065186P.
PR   17-NOV-1997; 97US-0065846P.
PR   18-NOV-1997; 97US-0055693P.
PR   21-NOV-1997; 97US-0066120P.
PR   21-NOV-1997; 97US-0066364P.
PR   24-NOV-1997; 97US-0066453P.
PR   24-NOV-1997; 97US-0066466P.
PR   24-NOV-1997; 97US-0066511P.
PR   24-NOV-1997; 97US-0066770P.
PR   24-NOV-1997; 97US-0066772P.
PR   25-NOV-1997; 97US-0066840P.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
XX
DR   WPI; 1999-229533/19.
DR   P-PSDB; AAY13347.
XX
PT   New isolated human genes and polypeptides used in, e.g. treatment of
PT   gastrointestinal ulceration.
XX
PS   Claim 2; Fig 8; 320pp; English.
XX
CC   AAX52213-74 encode secreted and transmembrane human proteins, and are
CC   obtained from cDNA libraries, prepared from fetal lung, fetal kidney,
CC   fetal brain, fetal liver and fetal retina. The encoded polypeptides have
CC   specific uses based on their homology to known polypeptides: e.g. PRO211
CC   and PRO217 can be used for disorders associated with the preservation and
CC   maintenance of gastrointestinal mucosa and the repair of acute and
CC   chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome,
CC   gastrointestinal ulceration and congenital microvillus atrophy), skin
CC   diseases associated with abnormal keratinocyte differentiation (e.g.
CC   psoriasis, epithelial cancers such as lung squamous cell carcinoma of the
CC   vulva and gliomas), potent effects on cell growth and development,
CC   diseases related to growth or survival of nerve cells including
CC   Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer.
CC   PRO265 can be used as for fibromodulin, e.g. for reducing dermal
CC   scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may
CC   be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can
CC   be used as an anti-thrombotic agent; PRO287 polypeptides and portions may
CC   have therapeutic applications in wound healing and tissue repair; PRO317
CC   can be used for treating problems of the kidney, uterus, endometrium,
CC   blood vessels, or related tissue, e.g. in the heart of genital tract
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   93.2%; Score 953.4; DB 2; Length 960;
Best Local Similarity   99.9%; Pred. No. 1.5e-208;
Matches 954; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   69 GCTTGCTTGCCCTGTTGATGGCAGGCTTGCCCTGCAGCCAGCGACTGCCCTGCTGTGCTA 128
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GCTTGCTTGCCCTGTTGATGGCAGGCTTGCCCTGCAGCCAGCGACTGCCCTGCTGTGCTA   60

Qy   129 CTTCTGCAAAGCCCAGGTGAGCAACGACAGAGAACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTTCTGCAAAGCCCAGGTGAGCAACGACAGAGAACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120
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Qy  189 GGGGGAGCAGTGCTGGACCGGCGGCATCCGCGGCAGTTGGCCTCCTGACCGTCATCAGCAA 248
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121 GGGGGAGCAGTGCTGGACCGGCGGCATCCGCGGCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy  249 AGGCTGCAGCTTGAACTGCGTGATGACTACGTCACAGGACTACTACGTGGCAAGAAGAACAT 308
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  181 AGGCTGCAGCTTGAACTGCGTGATGACTACGTCACAGGACTACTACGTGGGCAAGAAGAACAT 240

Qy  309 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCTGCAGCCGGCTGC 368
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCTGCAGCCGGCTGC 300

Qy  369 CGGCCATCCTTGCGGCTGCTCCTGCACTCGGCCTCTCGGGGGACCCGGCCAGCTATA 428
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  301 CGGCCATCCTTGCGGCTGCTCCTGCACTCGGCCTCTCGGGGGACCCGGCCAGCTATA 360

Qy  429 GGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGTGCCCCAGGCCTTCTGTGCCAC 488
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  361 GGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGTGCCCCAGGCCTTCTGTGCCAC 420

Qy  489 TCCTCAAGACCTGGCCCAGTGGAGCTTCCTGGTTCCTGAGGCACATCCTAACGCAA 548
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  421 TCCTCACAGACCTCGGCCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 480

Qy  549 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGTCCCCCACCCTGACCCTCCTCTCCA 608
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  481 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGTCCCCCACCCTGACCCTCCTCTCCA 540

Qy  609 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGGCCCCCTCCA 668
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  541 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGGCCCCCTCCA 600

Qy  669 ACCCTCTGCTGTGTTTCCATGGCCCAGCATTCTCCACCCTAACCCTGTGTCTCAGGC 728
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  601 ACCCTCTGCTGTGTTTCCATGGCCCAGCATTCTCCACCCTAACCCTGTGTCTCAGGC 660

Qy  729 ACCTCTTCCCCAGGAAGCCTTCCTGCCCATCTATGACTTGAGCCAGGTCTGGT 788
            ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  661 ACCTCTTCCCCAGGAAGCCTTCCTGCCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy  789 CCGTGGTGTGTCCCCCGCACCCAGCAGGGACCAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  721 CCGTGGTGTGTCCCCCGCACCCAGCAGGGACCAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy  849 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 908
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy  909 AGAGATGGGGCCTGGAGGAAGGGGCCAGGAACTCCTCACATTCGTGGGGGCTCCCTG 968
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  841 AGAGATGGGGCCTGGAGGAAGGGGCCAGGAACTCCTCACATTCGTGGGGGCTCCCTG 900

Qy  969 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
            |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  901 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
```

RESULT 8

AAF72375

ID   AAF72375   standard; cDNA; 960 BP.
XX
AC   AAF72375;
XX
DT   24-APR-2001 (first entry)
XX
DE   Human PRO232 cDNA.
XX
KW   Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
KW   antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
KW   antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
KW   antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes;
KW   ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
KW   ischaemia; inflammation; expressed sequence tag; EST; ss.

Query Match   93.2%; Score 953.4; DB 4; Length 960;
Best Local Similarity   99.9%; Pred. No. 1.5e-208;
Matches 954; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

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Qy   69 GCTGCTTGCCCTGTTCGATGCGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCGTGCTA 128
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 GCTGCTTGCCCTGTTCGATGCGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCGTGCTA 60

Qy  129 CTCCTGCAAAGCCCAGGTGAGCAACGACGAGGACTGCACGTGGAGAACTGCACCCAGCT 188
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTCCTGCAAAGCCCAGGTGAGCAACGACGAGGACTGCACGTGGAGAACTGCACCCAGCT 120

Qy  189 GGGGGAGCAGTGCTGGACCGGCGGCATCCGCGGCAGTTGGCCTCCTGACCGTCATCAGCAA 248
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121 GGGGGAGCAGTGCTGGACCGGCGGCATCCGCGGCAGTTGGCCTCCTGACCGTCATCAGCAA 180
```

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PD   26-JUL-2001.
XX
PF   11-FEB-2000;  2000WO-US003565.
XX
PR   08-MAR-1999;  99WO-US005028.
PR   11-MAR-1999;  99US-0123972P.
PR   11-MAY-1999;  99US-0133459P.
PR   02-JUN-1999;  99WO-US012252.
PR   22-JUN-1999;  99US-0140650P.
PR   22-JUN-1999;  99US-0140651P.
PR   20-JUL-1999;  99US-0144758P.
PR   26-JUL-1999;  99US-0145698P.
PR   28-JUL-1999;  99US-0146222P.
PR   17-AUG-1999;  99US-0149395P.
PR   31-AUG-1999;  99US-0151689P.
PR   01-SEP-1999;  99WO-US20111.
PR   15-SEP-1999;  99WO-US021090.
PR   30-NOV-1999;  99WO-US028313.
PR   01-DEC-1999;  99WO-US028301.
PR   01-DEC-1999;  99WO-US028634.
PR   05-JAN-2000;  2000WO-US000219.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ,  Goddard A, Godowski PJ,  Gurney AL,  Hillan KJ;
PI   Marsters SA,  Pan J,  Pitti RM,  Roy MA,  Smith V,  Stone DM;
PI   Watanabe CK,  Wood WI;
XX
DR   WPI; 2002-205567/26.
DR   P-PSDB; AAU86131.
XX
PT   Thirty five nucleic acids encoding PRO polypeptides, useful for treating
PT   benign or malignant tumors, leukemias and lymphoid malignancies,
PT   inflammatory, angiogenic and immunologic disorders.
XX
PS   Claim 50; Fig 7; 302pp; English.
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides and the polynucleotide sequences encoding them. The PRO
CC   polypeptides, agonists, antagonists or anti-PRO antibodies are useful for
CC   treating benign or malignant tumours (e.g. renal, kidney, bladder,
CC   breast, etc), leukaemias and lymphoid malignancies, other disorders such
CC   as neuronal, glial, astrocytal, hypothalamic, glandular, macrophagal,
CC   stromal and blastocoelic disorders, inflammatory, immune and angiogenic
CC   disorders. The polynucleotide sequences are also useful in gene therapy.
CC   ABK40254-ABK40288 encode for the human PRO polypeptides of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match         93.2%;  Score 953.4;  DB 6;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 1.5e-208;
Matches 954;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy     69 GCTGCTTGCCCGTTGCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTTGCCCGTCTGTGCTA 128
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 GCTGCTTGCCCGTTGCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTTGCCCGTCTGTGCTA 60

Qy    129 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCTTGCAGGTGAGAACTGCACCCAGCT 188
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCTTGCAGGTGAGAACTGCACCCAGCT 120

Qy    189 GGGGAGGAGCAGTGCTGGACCGCGCATCCGGCCCAGTTGGCCTCCTGACCGTCATCAGCAA 248
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 GGGGAGGAGCAGTGCTGGACCGCGCATCCGGCCCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy    249 AGGCTGCAGCTTGAACTGCGTGATGACTGACTCAAGGACTACGTGGGCAAGAAGAACAT 308
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 AGGCTGCAGCTTGAACTGCGTGATGACTGACTCAAGGACTACGTGGGCAAGAAGAACAT 240

Qy    309 CACGTGCTGTGACACCGACTTGTGCAACCGACATTGTGCAACGCAC 368
          ||||||||||||||||||||||||||||||||||||||||||||||
Db    241 CACGTGCTGTGACACCGACTTGTGCAACCGACATTGTGCAACGCAC 300
```

Qy   249 AGGCTGCAGCTTGAACTGCGTGGTGATGACTACTACGTGGGCAAGAAGAACAT 308
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTTGAACTGCGTGATGACTACTACGTGGGCAAGAAGAACAT 240

Qy   309 CACGTGCTGTGACACCGACTTGTGCAACCGGGCCCATGCCTGCCGGCTGC 368
          |||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTGCAACCGACCCATGCCCTGCCGGCGGCTGC 300

Qy   369 CGCCATCCTTGCGCTGCCTGCGACTCGGCCTCTGGGGACCCGGCCAGCTATA 428
          |||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTGCGCTGCTCCCTGCGCACTCGGCCTCTGGGGACCCGGCCAGCTATA 360

Qy   429 GGCTCGGGGGGGCCCGGCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCAC 488
          |||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTCTGGGGGGGCCCGGCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCTCTGTGCCAC 420

Qy   489 TCCTCCACAGACCTGGCCCAGTGGGAGCCTGTCCTCGTTCCTGAGGCACATCCTAACGCAA 548
          |||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCCACAGACCTGGCCCAGTGGGAGCCTGTCCTCGTTCCTGAGGCACATCCTAACGCAA 480

Qy   549 GTCTGACCATGTATGTCTGACACCCTGTCCCCCACCCTGCCCCATGGCCCCTCCA 608
          |||||||||||||||||||||||||||||||||||||||||||||
Db   481 GTCTGACCATGTATGTCTGACACCCTGTCCCCCACCCTGCCCCATGGCCCCTCCA 540

Qy   609 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 668
          |||||||||||||||||||||||||||||||||||||||||||||
Db   541 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 600

Qy   669 ACCCTCTCTGCTGCTGCGTGTTCCATGGCCCAGCATTCTCCACACCCTTAACCCTGTGCTCAGCC 728
          |||||||||||||||||||||||||||||||||||||||||||||
Db   601 ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACACCCTTAACCCTGTGCTCAGGC 660

Qy   729 ACCTCTTCCCCAGGAAGCCTTCCTGCTGGCAGGGACCAGGCAAGAGGCCAGTCTGGT 788
          |||||||||||||||||||||||||||||||||||||||||||||
Db   661 ACCTCTTCCCCAGGAAGCCTCCTGCTGGCAGGGACCAGGCAAGAGGCCAGTCTGGT 720

Qy   789 CCGTGGTGTCCCCCGACCCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
          |||||||||||||||||||||||||||||||||||||||||||||
Db   721 CCGTGGTGTCCCCCGACCCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy   849 GATGAAGTGGACTGAGTAGAACTGAGGACAAGAGTCGACGTGAGTTCTGGGAGTCTCC 908
          |||||||||||||||||||||||||||||||||||||||||||||
Db   781 GATGAAGTGGACTGAGTAGAACTGAGGACAAGAGTCGACGTGAGTTCTGGGAGTCTCC 840

Qy   909 AGAGATGGGGGCCTGGAGGCGGCTGGAGGAAGAGGGGCCAGGGCCTCACATTCGTGGGCTCCCTG 968
          |||||||||||||||||||||||||||||||||||||||||||||
Db   841 AGAGATGGGGGCCTGGAGGCGGCTGGAGGAAGAGGGGCCAGGGCCTCACATTCGTGGGCTCCCTG 900

Qy   969 AATGGCAGCCTGAGCACAACAGCGTAGGCCCTTAATAAAACACCTGTTGGATAAGCCCA 1023
          |||||||||||||||||||||||||||||||||||||||||||||
Db   901 AATGGCAGCCTGAGCACAACAGCGTAGGCCCTTAATAAAACACCTGTTGGATAAGCCAA 955

```
RESULT 9
ABK40257
ID   ABK40257 standard; cDNA; 960 BP.
XX
AC   ABK40257;
XX
DT   15-JUL-2002 (first entry)
XX
DE   cDNA encoding human PRO232 polypeptide.
XX
KW   Human; PRO; benign tumour; malignant tumour; lymphoid malignancy;
KW   leukaemia; neuronal disorder; stromal disorder; blastocoelic disorder;
KW   inflammatory disorder; immune disorder; angiogenic disorder;
KW   gene therapy; cytostatic; neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   WO20153486-A1.
XX
```

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Qy    369  CGCCATCCTTGGCTGCTCCCTGCACTCGGCCTGCTGCTGGGGACCCGGCCAGCTATA  428
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301  CGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTGCTGGGGACCCGGCCAGCTATA  360

Qy    429  GGCTCTGGGGGGCGCCCCGCTGCAGCCCACACTGGGTGGTGTGCCCCAGGCCTTCTGTGCCAC  488
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361  GGCTCTGGGGGGCGCCCCGCTGCAGCCCACACTGGGTGGTGTGCCCCAGGCCTTCTGTGCCAC  420

Qy    489  TCCTCACAGACCTGGCCAGTGGGAGCCGTGTCCTGGTTCCTGAGGCACATCCTAACGCAA  548
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421  TCCTCACAGACCTGGCCAGTGGGAGCCGTGTCCTGGTTCCTGAGGCACATCCTAACGCAA  480

Qy    549  GTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCCTCCCACCCGGCCCTCCCA  608
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481  GTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCCTCCCACCCGGCCCTCCCA  540

Qy    609  GGACTCCCACCCGGCAGATCAGCTTCAGTGACACAGATCCGCCTGCAGATGCCCCTCCA  668
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541  GGACTCCCACCCGGCAGATCAGCTTCAGTGACACAGATCCGCCTGCAGATGCCCCTCCA  600

Qy    669  ACCCTCTCGTCGTGTTTCCATGGCCCAGCATTCTCCACCCTAACCCTGCGTCAGGC  728
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  ACCCTCTCGTCGTGTTTCCATGGCCCAGCATTCTCCACCCTAACCCTGCGTCAGGC  660

Qy    729  ACCTCTTCCCCAGGAAGCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  788
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661  ACCTCTTCCCCAGGAAGCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  720

Qy    789  CCGTGGTGTCCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA  848
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721  CCGTGGTGTCCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA  780

Qy    849  GATGAAGTGACTGAGTAGAACTGGAGGACAAGAGTCACGTGAGTTCCTGGGAGTCTCC  908
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781  GATGAAGTGACTGAGTAGAACTGGAGGACAAGAGTCACGTGAGTTCCTGGGAGTCTCC  840

Qy    909  AGAGATGGGGCCTGGAGGGCCTGGAGGGAAGGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  968
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841  AGAGATGGGGCCTGGAGGGCCTGGAGGGAAGGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  900

Qy    969  AATGGCAGCCTGAGCACACGCTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA  1023
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901  AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA  955
```

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RESULT 10
ACA58909
ID   ACA58909 standard; cDNA; 960 BP.
XX
AC   ACA58909;
XX
DT   16-JUN-2003  (first entry)
XX
DE   Human PRO polynucleotide #4.
XX
KW   Human; PRO; gene; ss; secreted polypeptide; transmembrane polypeptide;
KW   pathological disorder; cardiac insufficiency disorder; protein secretion;
KW   pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
KW   skin disease; keratinocyte differentiation; epithelial cancer; tumour;
KW   lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
KW   cytostatic; cardiant; endocrine; antidiabetic; gastrointestinal;
KW   antiulcer; dermatological; vulnerary.
XX
OS   Homo sapiens.
XX
PN   US2002146709-A1.
XX
PD   10-OCT-2002.
XX
PF   18-JUL-2001; 2001US-00909088.
XX
PR   17-SEP-1997; 97US-0059113P;
PR   17-SEP-1997; 97US-0059115P;
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PR   17-SEP-1997;  97US-0059117P.
PR   17-SEP-1997;  97US-0059119P.
PR   17-SEP-1997;  97US-0059121P.
PR   17-SEP-1997;  97US-0059122P.
PR   17-SEP-1997;  97US-0059184P.
PR   18-SEP-1997;  97US-0059263P.
PR   18-SEP-1997;  97US-0059266P.
PR   15-OCT-1997;  97US-0062125P.
PR   17-OCT-1997;  97US-0062285P.
PR   17-OCT-1997;  97US-0062287P.
PR   21-OCT-1997;  97US-0063486P.
PR   24-OCT-1997;  97US-0062814P.
PR   24-OCT-1997;  97US-0062816P.
PR   24-OCT-1997;  97US-0063045P.
PR   24-OCT-1997;  97US-0063120P.
PR   24-OCT-1997;  97US-0063121P.
PR   24-OCT-1997;  97US-0063127P.
PR   24-OCT-1997;  97US-0063128P.
PR   27-OCT-1997;  97US-0063327P.
PR   27-OCT-1997;  97US-0063329P.
PR   28-OCT-1997;  97US-0063541P.
PR   28-OCT-1997;  97US-0063542P.
PR   28-OCT-1997;  97US-0063544P.
PR   28-OCT-1997;  97US-0063549P.
PR   28-OCT-1997;  97US-0063550P.
PR   28-OCT-1997;  97US-0063564P.
PR   29-OCT-1997;  97US-0063435P.
PR   29-OCT-1997;  97US-0063704P.
PR   29-OCT-1997;  97US-0063732P.
PR   29-OCT-1997;  97US-0063734P.
PR   29-OCT-1997;  97US-0063735P.
PR   29-OCT-1997;  97US-0063738P.
PR   29-OCT-1997;  97US-0064215P.
PR   31-OCT-1997;  97US-0063870P.
PR   31-OCT-1997;  97US-0064103P.
PR   03-NOV-1997;  97US-0064248P.
PR   07-NOV-1997;  97US-0064809P.
PR   12-NOV-1997;  97US-0065186P.
PR   17-NOV-1997;  97US-0065846P.
PR   18-NOV-1997;  97US-0065693P.
PR   21-NOV-1997;  97US-0066120P.
PR   21-NOV-1997;  97US-0066364P.
PR   24-NOV-1997;  97US-0066453P.
PR   24-NOV-1997;  97US-0066466P.
PR   24-NOV-1997;  97US-0065511P.
PR   24-NOV-1997;  97US-0066770P.
PR   24-NOV-1997;  97US-0066772P.
PR   10-SEP-1998;  98WO-US018824.
PR   14-SEP-1998;  98WO-US019177.
PR   16-SEP-1998;  98WO-US019330.
PR   17-SEP-1998;  98WO-US019437.
PR   01-DEC-1998;  98WO-US023108.
PR   08-SEP-1999;  99WO-US020594.
PR   13-SEP-1999;  99WO-US020944.
PR   15-SEP-1999;  99WO-US021090.
PR   15-SEP-1999;  99WO-US021547.
PR   05-OCT-1999;  99WO-US023089.
PR   29-NOV-1999;  99WO-US028214.
PR   30-NOV-1999;  99WO-US028813.
PR   01-DEC-1999;  99WO-US028301.
PR   02-DEC-1999;  99WO-US028564.
PR   02-DEC-1999;  99WO-US028565.
PR   16-DEC-1999;  99WO-US030095.
PR   20-DEC-1999;  99WO-US030911.
PR   20-DEC-1999;  99WO-US030999.
PR   05-JAN-2000;  2000WO-US000219.
PR   11-FEB-2000;  2000WO-US003565.
PR   22-FEB-2000;  2000WO-US004414.
PR   24-FEB-2000;  2000WO-US005004.
PR   02-MAR-2000;  2000WO-US005841.
PR   20-MAR-2000;  2000WO-US007377.
PR   30-MAR-2000;  2000WO-US008439.
PR   22-MAY-2000;  2000WO-US014042.
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PR   02-JUN-2000; 2000WO-US015264.
PR   28-JUL-2000; 2000WO-US020710.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00665350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI   Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI   Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI   Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI   Williams PM, Wood WI;
XX
DR   WPI; 2003-328338/31.
DR   P-PSDB; ABU71593.
XX
PT   Isolated nucleic acid useful for e.g. treating pathological disorders
PT   encodes a secreted or transmembrane protein.
XX
PS   Claim 2; Fig 8; 473pp; English.
XX
CC   The invention relates to human PRO polypeptides (secreted or
CC   transmembrane polypeptides) and the polynucleotides encoding them. The
CC   PRO polypeptides and polynucleotides can be used in treating pathological
CC   disorders and tumours, in therapeutic treatment of cardiac insufficiency
CC   disorders and in therapeutic treatment of disorders involving protein
CC   secretion by the pancreas, including diabetes. They can also be used in
CC   treating disorders associated with the preservation and maintenance of
CC   gastrointestinal mucosa and the repair of acute and chronic mucosal
CC   lesions, and skin diseases associated with abnormal keratinocyte
CC   differentiation (e.g., psoriases, epithelial cancers such as lung
CC   squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).
CC   The sequences can be used as molecular markers for protein
CC   electrophoresis purposes and can be utilised in protein-protein binding
CC   assays, biochemical screening assays, immunoassays and cell-based assays.
CC   This sequence represents a human PRO polynucleotide of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             93.2%;  Score 953.4;  DB 7;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 1.5e-208;
Matches  954;  Conservative    0;  Mismatches    0;  Indels   1;  Gaps    0;

Qy   69 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGCTA 128
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGCTA  60

Qy  129 CTCCTGCAAAGCCCAGTGAGCAACAGGACTGCCTTGCAGGTGAGGAACTGCACCCAGCT 188
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTCCTGCAAAGCCCAGTGAGCAACAGGACTGCCTTGCAGGTGAGGAACTGCACCCAGCT 120

Qy  189 GGGGGAGCAGTGCTGGACCCGCGCATCCGCGCAGTTGGCCCTCCTGACGGTCATCAGCAA 248
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121 GGGGGAGCAGTGCTGGACCCGCGCATCCGCGCAGTTGGCCCTCCTGACGGTCATCAGCAA 180

Qy  249 AGGCTGCAGCTTGAACTGCGTGGATGACTACTACGTGGGCAAGAAGAAACAT 308
         |||||||||||||||||||||||||||||||||||||||||||||||||||
Db  181 AGGCTGCAGCTTGAACTGCGTGGATGACTACTACGTGGGCAAGAAGAAACAT 240

Qy  309 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCCAGCGGGGCCTGCGCAGCCGGCTGC 368
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCCAGCGGGGCCTGCGCAGCCGGCTGC 300

Qy  369 CGCCATCCTTGCGCCTGCTCCCTGCACTCGG 428
Db  301 CGCCATCCTTGCGCCTGCTCCCTGCACTCGG 360

Qy  429 GGGTCTGGGGGGCCCCCGCTGCAGCCCACACTGGTGTGGTGCCCAGGCCTCTGTGCCAC 488
Db  361 GGCTCTGGGGGGCCCCCGCTGCAGCCCACACTGGTGTGGTGCCCAGGCCTCTGTGCCAC 420

Qy  489 TCCTCACAGACCTGGCCCAGTGGGAGAGCCTGTGTCTGTTCCTGAGGCACATCCTAACGCAA 548
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Db 421 TCCTCACAGACCTGGCCCAGTGGGAGAGCCTGTGTCTGTTCCTGAGGCACATCCTAACGCAA 480
Qy 549 GTCTGACCATGTATGTCTGCACCCGTGTCCCCATGGCCCTCCA 608
Db 481 GTCTGACCATGTATGTCTGCACCCGTGTCCCCATGGCCCTCCA 540

Qy 609 GGACTCCCACCCGGCAGATCAGCTCTAGTCAGTGACACAGATCCGCGCTCGA 668
Db 541 GGACTCCCACCCGGCAGATCAGCTCTAGTCAGTGACACAGATCCGCGCTCCA 600

Qy 669 ACCCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTCAGGC 728
Db 601 ACCCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTCAGGC 660

Qy 729 ACCTTCTTCCCCAGGAGGCCTTCCCTGCCCCACCCCATCTATGACTTGAGCCAGTCTGT 788
Db 661 ACCTTCTTCCCCAGGAGGCCTTCCCTGCCCCACCCCATCTATGACTTGAGCCAGTCTGT 720

Qy 789 CCGTGGTGTCCCCGCACCCAGCAGGACACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
Db 721 CCGTGGTGTCCCCGCACCCAGCAGGACACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy 849 GATGAAGTGGACTGAGTAGAACTGAGAGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 908
Db 781 GATGAAGTGGACTGAGTAGAACTGAGAGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy 909 AGAGATGGGGCCTGGAGGCCTGGAGGAGGAAGGGGCCAGGCCTCACATTCGTGGGCTCCCTG 968
Db 841 AGAGATGGGGCCTGGAGGCCTGGAGGAGGAAGGGGCCAGGCCTCACATTCGTGGGCTCCCTG 900

Qy 969 AATGCAGCCTGAGCACAGCAGGCTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
Db 901 AATGCAGCCTGAGCACAGCAGGCTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955

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RESULT 11
ACA58306
ID   ACA58306 standard; cDNA; 960 BP.
XX
AC   ACA58306;
XX
DT   10-JUN-2003  (first entry)
XX
DE   cDNA encoding human PRO polypeptide #4.
XX
KW   Human; secreted and transmembrane protein; PRO polypeptide; cancer;
KW   Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic;
KW   neuroprotective; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2002192659-A1.
XX
PD   19-DEC-2002.
XX
PF   10-JUL-2001; 2001US-00902853.
XX
PR   17-SEP-1997;  97US-0059113P.
PR   17-SEP-1997;  97US-0059115P.
PR   17-SEP-1997;  97US-0059117P.
PR   17-SEP-1997;  97US-0059119P.
PR   17-SEP-1997;  97US-0059121P.
PR   17-SEP-1997;  97US-0059122P.
PR   17-SEP-1997;  97US-0059184P.
PR   18-SEP-1997;  97US-0059263P.
PR   18-SEP-1997;  97US-0059266P.
PR   15-OCT-1997;  97US-0061125P.
PR   17-OCT-1997;  97US-0062285P.
PR   17-OCT-1997;  97US-0062287P.
PR   21-OCT-1997;  97US-0063486P.
PR   24-OCT-1997;  97US-0062814P.
PR   24-OCT-1997;  97US-0062816P.
PR   24-OCT-1997;  97US-0063045P.
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DR   P-PSDB; ABU71448.
XX
PT   New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or
PT   PRO1868, useful in molecular biology, chromosome and gene mapping, in
PT   generating antisense RNA and DNA, and in gene therapy.
XX
PS   Claim 2; Fig 8; 474pp; English.
XX
CC   The present invention relates to the isolation of novel human secreted
CC   and transmembrane proteins (PRO polypeptides), and the polynucleotide
CC   sequences encoding them. The polynucleotide sequences are useful in
CC   molecular biology, as hybridisation probes, in chromosome and gene
CC   mapping, in generating antisense RNA and DNA, and in gene therapy. The
CC   polynucleotide sequences may also be used in preparing PRO polypeptides
CC   by recombinant techniques, and in generating either transgenic animals or
CC   knock-out animals which, in turn, are useful in the development and
CC   screening of therapeutically useful reagents. The PRO polypeptides or
CC   their antibodies are useful in preparing a medicament for treating a
CC   condition responsive to the polypeptide or antibody, such as cancer,
CC   Alzheimer's disease or ischaemia, and in various diagnostic assays. The
CC   present sequence encodes a human PRO polypeptide of the invention
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   93.2%; Score 953.4; DB 7; Length 960;
Best Local Similarity   99.9%; Pred. No. 1.5e-208;
Matches 954; Conservative   0; Mismatches   1; Indels   1; Gaps   0;

Qy   69 GTGCTTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCACTGCCCTGCTGTGTGCTA 128
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCTGCAGCACTGCCCTGCTGTGTGCTA 60

Qy   129 CTCCTGCAAAGCCAGGTGAGCAACGAGACTGCCTGCAGTGGGAGAACTGCACCCAGCT 188
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTCCTGCAAAGCCAGGTGAGCAACGAGACTGCCTGCAGTGGGAGAACTGCACCCAGCT 120

Qy   189 GGGGGAGCAGTGCTGGACCGCGGCCATCCGCGGCCATCCGCAGTTGGCCTCCTGACCGTCATCAGCAA 248
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGCTGGACCGCGGCCATCCGCGGCCATCCGCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy   249 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACGTGGGCAAGAAGAACAT 308
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACGTGGGCAAGAAGAACAT 240

Qy   309 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCTGACCGGCCGTGC 368
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCTGACCGGCCGTGC 300

Qy   369 CGCCATCCTTGCGCTGCTCCCTGCACTCGGCTCCGGCCTGCTGGGGACCCCGGCCAGCTATA 428
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGGCATCCTTGCGCTGCTCCCTGCACTCGGCTCCGGCCTGCTGGGGACCCCGGCCAGCTATA 360

Qy   429 GGCTCTGGGGGGCCCGCCACACTGGGTGGTCCTGGTTCCTGGGCACATCCTAACGCAA 488
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Db   361 GGCTCTGGGGGGCCCGCCACACTGGGTGGTCCTGGTTCCTGGGCACATCCTAACGCAA 420

Qy   489 TCCTCACAGACCTGGCCAGTGGGAGCCTGTTCCTGAGCGACATCCTAACGCAA 548
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Db   421 TCCTCACAGACCTGGCCAGTGGGAGCCTGTTCCTGAGCGACATCCTAACGCAA 480

Qy   549 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCACTGGCCCTCTCCA 608
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Db   481 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCACTGGCCCTCTCCA 540

Qy   609 GGACTCCACCCGGCAGATCAGCTCTAGTGACAGATCGCCTGCAGATGGCCCCTCCA 668
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Db   541 GGACTCCACCCGGCAGATCAGCTCTAGTGACAGATCGCCTGCAGATGGCCCCTCCA 600

Qy   669 ACCCTCTCTGCTGCTGTTCCATGGCCCAGCAATTCTCCACCCTTAACCTGTGTCAGGC 728
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Db   601 ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCAATTCTCCACCCTTAACCCTGTGTCAGGC 660

Qy   729 ACCTCTTCCCCAGGAAGCCTTCCCTGCCCCCATCATCTCATGCCTGGCCAGGTCTGGT 788

PR   24-OCT-1997; 97US-0063120P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063328P.
PR   27-OCT-1997; 97US-0063327P.
PR   27-OCT-1997; 97US-0063329P.
PR   28-OCT-1997; 97US-0063541P.
PR   28-OCT-1997; 97US-0063542P.
PR   28-OCT-1997; 97US-0063544P.
PR   28-OCT-1997; 97US-0063549P.
PR   28-OCT-1997; 97US-0063550P.
PR   28-OCT-1997; 97US-0063564P.
PR   29-OCT-1997; 97US-0063435P.
PR   29-OCT-1997; 97US-0063704P.
PR   29-OCT-1997; 97US-0063732P.
PR   29-OCT-1997; 97US-0063734P.
PR   29-OCT-1997; 97US-0063735P.
PR   29-OCT-1997; 97US-0063738P.
PR   29-OCT-1997; 97US-0064215P.
PR   31-OCT-1997; 97US-0063870P.
PR   31-OCT-1997; 97US-0064103P.
PR   03-NOV-1997; 97US-0064809P.
PR   07-NOV-1997; 97US-0055186P.
PR   12-NOV-1997; 97US-0055846P.
PR   17-NOV-1997; 97US-0055693P.
PR   18-NOV-1997; 97US-0066120P.
PR   21-NOV-1997; 97US-0066364P.
PR   21-NOV-1997; 97US-0064453P.
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PR   24-NOV-1997; 97US-0065511P.
PR   24-NOV-1997; 97US-0066770P.
PR   24-NOV-1997; 97US-0066772P.
PR   10-SEP-1998; 98WO-US018824.
PR   14-SEP-1998; 98WO-US019177.
PR   16-SEP-1998; 98WO-US019330.
PR   17-SEP-1998; 98WO-US019437.
PR   01-DEC-1998; 98WO-US025108.
PR   08-SEP-1999; 99WO-US020594.
PR   13-SEP-1999; 99WO-US020944.
PR   15-SEP-1999; 99WO-US021090.
PR   15-SEP-1999; 99WO-US021547.
PR   05-OCT-1999; 99WO-US023089.
PR   29-NOV-1999; 99WO-US028214.
PR   30-NOV-1999; 99WO-US028313.
PR   01-DEC-1999; 99WO-US028301.
PR   02-DEC-1999; 99WO-US028564.
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PR   16-DEC-1999; 99WO-US030095.
PR   20-DEC-1999; 99WO-US030911.
PR   20-DEC-1999; 99WO-US030999.
PR   05-JAN-2000; 2000WO-US000219.
PR   11-FEB-2000; 2000WO-US003565.
PR   22-FEB-2000; 2000WO-US004414.
PR   24-FEB-2000; 2000WO-US005004.
PR   02-MAR-2000; 2000WO-US005841.
PR   20-MAR-2000; 2000WO-US007377.
PR   30-MAR-2000; 2000WO-US008439.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   28-JUL-2000; 2000WO-US020710.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-0066350.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-361832/34.

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Db         661 ACCTCTTCCCCCAGGAAGCAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 720
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Qy         789 CCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAGGGGCCCAGTAAAGGCTGA 848
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         721 CCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAGGGGCCCAGTAAAGGCTGA 780

Qy         849 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 908
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Db         781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy         909 AGAGATGGGGCCTGGAGGCCTGAGGAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 968
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         841 AGAGATGGGGCCTGGAGGCCTGGAGGAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy         969 AATGGCAGCCTGAGCGACACAGCGTAGGCCCTTAATAAAACACCTGTTGGATAAGCCCA 1023
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Db         901 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAAACACCTGTTGGATAAGCCAA 955
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RESULT 12
ACA60013
ID   ACA60013 standard; cDNA; 960 BP.
XX
AC   ACA60013;
XX
DT   12-JUN-2003  (first entry)
XX
DE   Human cDNA for secreted/transmembrane protein PRO232.
XX
KW   Human; ss; gene; secreted protein; transmembrane protein; PRO;
KW   gene therapy; chromosome identification; chromosome marker.
XX
OS   Homo sapiens.
XX
PN   US2003003530-A1.
XX
PD   02-JAN-2003.
XX
PF   11-JUL-2001; 2001US-00904011.
XX
PR   17-SEP-1997;   97US-0059113P.
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PR   17-SEP-1997;   97US-0059119P.
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PR   24-OCT-1997;   97US-0063120P.
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PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
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PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   03-NOV-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0065186P.
PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0065693P.
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PR   24-NOV-1997;   97US-0066770P.
PR   10-SEP-1998;   98US-0019177.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   01-DEC-1998;   98WO-US025108.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.
PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.
PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.
PR   18-SEP-2000;   2000US-0066350.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi A,  Botstein D,  Desnoyers L,  Eaton DL,  Ferrara N;
PI   Filvaroff E,  Fong S,  Gao W,  Gerber H,  Gerritsen ME,  Goddard A;
PI   Godowski PJ,  Grimaldi JC,  Gurney AL,  Hillan KJ,  Kljavin IJ;
PI   Mather JP,  Pan J,  Paoni NF,  Roy MA,  Stewart TA,  Tumas D;
PI   Williams PM,  Wood WI;
XX
DR   WPI; 2003-329602/31.
DR   P-PSDB; ABU71894.
XX
PT   New transmembrane polypeptides and nucleic acids encoding the
PT   polypeptides, useful in gene therapy, in chromosome identification, as
PT   chromosome markers, in generating probes and in tissue typing.
XX
PS   Claim 2; Fig 8; 484pp; English.
XX
CC   The invention relates to an isolated nucleic acid with at least 80%
CC   nucleic acid sequence identity to a nucleotide sequence encoding one of
CC   61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a
CC   PRO protein extracellular domain. Also included are a vector comprising
CC   the PRO nucleic acid, a host cell comprising the vector, producing a PRO
CC   polypeptide (by culturing the host cell for the expression of the PRO
CC   polypeptide, and recovering the PRO polypeptide from the cell culture),
CC   an isolated PRO polypeptide (having at least 80% sequence identity to: (
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Db    661  ACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGTCTCGT  720
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Qy    789  CCGTGGTGTCCCCGCACCCAGCAGGGGACCAGGCACTCAGGAGGGCCCAGTAAAGGCTGA  848
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Db    721  CCGTGGTGTCCCCGCACCCAGCAGGGGACCAGGCACTCAGGAGGGCCCAGTAAAGGCTGA  780

Qy    849  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTGCGACGTGAGTTCTGGGAGTCTCC  908
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Db    781  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTGCGACGTGAGTTCCTGGGAGTCCC  840

Qy    909  AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  968
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841  AGAGATGGGGCCTGGAGGCCTGGAGGGAAGGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  900

Qy    969  AATGCAGCCTGAGCACAGCGTAGCCCTTAATAAACACCTGTTGGATAAGCCCA  1023
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Db    901  AATGGCAGCCTGAGCACAGCGTAGCCCCTTAATAAACACCTGTTGGATAAGCCAA  955
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RESULT 13
ACD07413
ID   ACD07413 standard; cDNA; 960 BP.
XX
AC   ACD07413;
XX
DT   07-AUG-2003 (first entry)
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DE   Novel human secreted and transmembrane protein PRO232 cDNA.
XX
KW   Human; secreted and transmembrane protein; PRO; pharmaceutical;
KW   diagnostic; biosensor; bioreactor; Parkinson's disease;
KW   Alzheimer's disease; inflammation; nephritis; wound healing;
KW   nerve repair; collateral blood vessel formation; cancer;
KW   colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;
KW   cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;
KW   scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;
KW   infertility; gene therapy; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2002197671-A1.
XX
PD   26-DEC-2002.
XX
PF   17-JUL-2001; 2001US-00907824.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
PR   17-SEP-1997; 97US-0059121P.
PR   17-SEP-1997; 97US-0059122P.
PR   17-SEP-1997; 97US-0059184P.
PR   18-SEP-1997; 97US-0059263P.
PR   18-SEP-1997; 97US-0059266P.
PR   15-OCT-1997; 97US-0062125P.
PR   17-OCT-1997; 97US-0062285P.
PR   17-OCT-1997; 97US-0062287P.
PR   21-OCT-1997; 97US-0063486P.
PR   24-OCT-1997; 97US-0062814P.
PR   24-OCT-1997; 97US-0062816P.
PR   24-OCT-1997; 97US-0063045P.
PR   24-OCT-1997; 97US-0063120P.
PR   24-OCT-1997; 97US-0063121P.
PR   24-OCT-1997; 97US-0063127P.
PR   24-OCT-1997; 97US-0063128P.
PR   27-OCT-1997; 97US-0063327P.
PR   27-OCT-1997; 97US-0063329P.
PR   28-OCT-1997; 97US-0063541P.
PR   28-OCT-1997; 97US-0063542P.
PR   28-OCT-1997; 97US-0063544P.
PR   28-OCT-1997; 97US-0063549P.
PR   28-OCT-1997; 97US-0063550P.

CC   a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino
CC   acid sequence encoded by a nucleic acid molecule deposited with an ATCC
CC   number (detailed in the specification); or (c) an extracellular domain of
CC   a PRO polypeptide or to a PRO polypeptide lacking its associated signal
CC   peptide), a chimaeric molecule comprising a PRO polypeptide of fused to a
CC   heterologous amino acid sequence, an anti-PRO antibody, detecting a
CC   PRO245 or PRO1868 in a sample suspected of containing the polypeptide,
CC   linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 and
CC   modulating at least one biological activity of a cell expressing a PRO245
CC   or PRO1868. Nucleic acids which encode PRO can be used to generate either
CC   transgenic animals or knock-out animals which may be used in the
CC   development and screening of therapeutically useful reagents. The nucleic
CC   acids may also be used in gene therapy, in chromosome identification, as
CC   chromosome markers, or in generating probes. The PRO polypeptides are
CC   useful as molecular markers for protein electrophoresis, and the isolated
CC   nucleic acids may be used nucleic acids may also be used in tissue typing. The
CC   PRO polypeptides and nucleic acids may also be used in diagnostic assays for PRO, and in
CC   Anti-PRO antibodies are useful in diagnostic assays for PRO, and in
CC   affinity purification of PRO from recombinant cell culture or natural
CC   sources. The present sequence encodes a PRO protein
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   93.2%; Score 953.4; DB 7; Length 960;
Best Local Similarity   99.9%; Pred. No. 1.5e-208;
Matches 954; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy     69  GCTGCTTGCCCGTTGATGGGCAGGCTTGGCCCTGCCCAGGCACTGCCCTGCCTGTGCTA  128
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Db      1  GCTGCTTGCCCGTTGATGGGCAGGCTTGGCCCTGCCCAGGCACTGCCCTGCCTGTGCTA   60

Qy    129  CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTCAGGTGGAGAACTGCACCCAGCT  188
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Db     61  CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTCAGGTGGAGAACTGCACCCAGCT  120

Qy    189  GGGGGAGCAGTGCTGGGACCCGCGCATCCGCGCAGTTGGCCTTCCTGACCGTCATCAGCAA  248
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121  GGGGGAGCAGTGCTGGGACCCGCGCATCCGCGCAGTTGGCCTTCCTGACCGTCATCAGCAA  180

Qy    249  AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTGTGGCAAGAAGAACAT  308
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Db    181  AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTGTGGGCAAGAAGAACAT  240

Qy    309  CACGTGCTGTGACACCGACTTGTGCAACGCAGCGGGGCCCATGCCCTGCCAGCCGGCTGC  368
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Db    241  CACGTGCTGTGACACCGACTTGTGCAACGCAGCGGGGCCCATGCCCTGCCAGCCGGCTGC  300

Qy    369  CGCCATCCTTGCCCTGCTGCCTCCGCACTCGACTCGCTGGGGACCCGGCCAGCTATA  428
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Db    301  CGCCATCCTTGCCCTGCTGCCTCCGCACTCGACTCGCTGGGGACCCGGCCAGCTATA  360

Qy    429  GGCTCTGGGGGGCCCCGCTGCAGCCCACTGGGTGTGCGCCCCAGGCCTTCTGTGCCAC  488
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Db    361  GGCTCTGGGGGGCCCCGCTGCAGCCCACTGGGTGTGCGCCCCAGGCCTTCTGTGCCAC  420

Qy    489  TCCTCACAGACCTTGGCCCAGTGGGAGCTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAAGCAA  548
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421  TCCTCACAGACCTGGCCCAGTGGGAGCTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAAGCAA  480

Qy    549  GTCTGACCATGTATGTCTGCACCCCATGGCCCTCCA  608
           ||||||||||||||||||||||||||||||||||||
Db    481  GTCTGACCATGTATGTCTGCACCCCATGGCCCTCCA  540

Qy    609  GGACTCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA  668
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541  GGACTCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA  600

Qy    669  ACCCTCTGCTCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGCTCAGGC  728
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  ACCCTCTGCTCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGCTCAGGC  660

Qy    729  ACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGTCTCGGT  788
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PR   28-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0063435P.
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PR   29-OCT-1997;   97US-0063732P.
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PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   07-NOV-1997;   97US-0065186P.
PR   17-NOV-1997;   97US-0058466P.
PR   18-NOV-1997;   97US-0065693P.
PR   21-NOV-1997;   97US-0066120P.
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PR   24-NOV-1997;   97US-0066772P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   01-DEC-1998;   98WO-US025108.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
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PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   17-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.
PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.
PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.
PR   18-SEP-2000;   2000US-00665350.

PA   (GETH ) GENENTECH INC.

PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;

DR   WPI; 2003-370793/35.
DR   P-PSDB; AB001777.

PT   New genes and secreted and transmembrane polypeptides (e.g. PRO245 or
PT   PRO35), useful for treating or diagnosing e.g. Alzheimer's disease,
PT   cancers, hemorrhage, rheumatoid arthritis, diabetes, cirrhosis, ischemia
PT   or strokes.

PS   Claim 2; Fig 8; 482pp; English.

CC   The invention describes a new isolated nucleic acid molecule comprising
CC   the full length coding sequence of the DNA deposited with the American
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CC   Type Culture Collection (e.g. ATCC Deposit No. 209258) ,or a sequence
CC   with at least 80% identity to a DNA encoding a PRO polypeptide comprising
CC   any of 61 sequences having 164-1119 amino acids fully defined in the
CC   specification. The PRO polypeptides or polynucleotides are useful as
CC   pharmaceuticals, diagnostics, biosensors or bioreactors. These are
CC   particularly useful for detecting or treating e.g. Parkinson's disease,
CC   Alzheimer's disease, inflammations, nephritis, wound healing, nerve
CC   repair, collateral blood vessel formation, cancers (e.g. colorectal
CC   cancer), haemorrhage (or reduce risk for haemorrhage), rheumatoid
CC   arthritis, diabetes, cirrhosis of the liver, fibrosis of the lungs,
CC   restenosis, dermal fibrotic conditions (e.g. keloids or scarring),
CC   ischaemia, strokes, hypertension, heart attacks, atherosclerosis, or
CC   infertility in mammals (e.g. humans, dogs, cats, cattle, horses, sheep,
CC   pigs, goats, or rabbits) The PRO polypeptides are useful as targets for
CC   therapeutic intervention in these diseases, and diagnostic determination
CC   of the presence of these diseases. The PRO polypeptides are also useful
CC   as molecular weight markers, or for chromosome identification. The PRO
CC   genes are useful as hybridisation probes, or for screening libraries of
CC   human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC   therapy, particularly for replacing a defective gene. This sequence
CC   encodes a novel human secreted and transmembrane PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;
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Query Match             93.2%;  Score 953.4;  DB 7;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 1.5e-208;
Matches  954;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy     69  GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 128
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Db      1  GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 60

Qy    129  CTCCTGCAAAGCCAGGTGAGCAACGAGACTGCCTGCAGGTGGAGAACTGCACCCAGCT    188
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61  CTCCTGCAAAGCCAGGTGAGCAACGAGACTGCCTGCAGGTGGAGAACTGCACCCAGCT    120

Qy    189  GGGGGAGCAGTGCTGACCGGCGCGATCCGCGGCAGTTGGCCTCCTGACCGTCATCAGCAA 248
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121  GGGGGAGCAGTGCTGACCGGCGCGATCCGCGGCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy    249  AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 308
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181  AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 240

Qy    309  CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCAGCCGGCGGCTGC   368
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241  CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCAGCCGGCGGCTGC   300

Qy    369  CGCCATCCTTGGCGTGCTCCCTGCACTCGGCCTGCTCGGCCTGCTCGGGGACCCGGCCAGTGTATA 428
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301  CGCCATCCTTGGCGTGCTCCCTGCACTCGGCCTGCTCGGCCTGCTCGGGGACCCGGCCAGTGTATA 360

Qy    429  GGCTCTGGGGGGCCCCCTGCAGCCACACTGGGTGTGCCCAGGCCTCGTGCCAC   488
           ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361  GGCTCTGGGGGGCCCCCTGCAGCCACACTGGGTGTGCCCAGGCCTCGTGCCAC   420

Qy    489  TCCTCAGACTGGCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAAGCGAA 548
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421  TCCTCAGACTGGCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAAGCGAA 480

Qy    549  GTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTCCCACCCTGACCCTCTCCA 608
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481  GTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTCCCACCCTGACCCTCTCCA 540

Qy    609  GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGCCCCTCCA 668
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541  GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGCCCCTCCA 600

Qy    669  ACCCTCTCGCTGTCTGTTCCATGGCCCAGATTCTCCACCCTTAACCCTGCTCAGGC 728
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  ACCCTCTCGCTGTCTGTTCCATGGCCCAGATTCTCCACCCTTAACCCTGTGTCAGGC 660

Qy    729  ACCTGTTCCCCAGGAGAGCCTTCCCTGCCCACCCCATCATGACTTGAGCCAGGTCTGGT 788
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Db        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
      661 ACCTCTTCCCCCAGGRAGCCTTCCCTGCCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy    789 CCGTGGTGTCCCCGCACCCAGCAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721 CCGTGGTGTCCCCGCACCCAGCAGGGGACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy    849 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 908
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy    909 AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTTCCCTG 968
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841 AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy    969 AATGGCAGCCAGCCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901 AATGGCAGCCAGCCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 14
ABX71461
ID ABX71461 standard; cDNA; 960 BP.
XX
AC ABX71461;
XX
DT 10-MAR-2003 (first entry)
XX
DE Human cDNA encoding secreted/transmembrane protein PRO232.
XX
KW Human; PRO; secreted protein; transmembrane protein; enterocolitis;
KW gastrointestinal ulceration; skin disease; ss; gene;
KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
KW amyotrophic lateral sclerosis; inflammatory disease;
KW rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
KW atherosclerosis; cardiac injury; infertility; birth defect;
KW premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
KW diabetic complication; wound repair.
XX
OS Homo sapiens.
XX
PN US2002132240-A1.
XX
PD 19-SEP-2002.
XX
PF 18-JUL-2001; 2001US-00909320.
XX
PR 17-SEP-1997;   97US-0059113P.
PR 17-SEP-1997;   97US-0059115P.
PR 17-SEP-1997;   97US-0059117P.
PR 17-SEP-1997;   97US-0059119P.
PR 17-SEP-1997;   97US-0059121P.
PR 17-SEP-1997;   97US-0059122P.
PR 17-SEP-1997;   97US-0059184P.
PR 17-SEP-1997;   97US-0059263P.
PR 18-SEP-1997;   97US-0059266P.
PR 15-OCT-1997;   97US-0062125P.
PR 17-OCT-1997;   97US-0062285P.
PR 17-OCT-1997;   97US-0062287P.
PR 17-OCT-1997;   97US-0063486P.
PR 21-OCT-1997;   97US-0062814P.
PR 24-OCT-1997;   97US-0062816P.
PR 24-OCT-1997;   97US-0063045P.
PR 24-OCT-1997;   97US-0063120P.
PR 24-OCT-1997;   97US-0063121P.
PR 24-OCT-1997;   97US-0063127P.
PR 24-OCT-1997;   97US-0063128P.
PR 27-OCT-1997;   97US-0063327P.
PR 27-OCT-1997;   97US-0063329P.
PR 28-OCT-1997;   97US-0063541P.
PR 28-OCT-1997;   97US-0063542P.
PR 28-OCT-1997;   97US-0063544P.
PR 28-OCT-1997;   97US-0063549P.
PR 28-OCT-1997;   97US-0063550P.
PR 28-OCT-1997;   97US-0063564P.
PR 29-OCT-1997;   97US-0063435P.
PR 29-OCT-1997;   97US-0063704P.
PR 29-OCT-1997;   97US-0063732P.
PR 29-OCT-1997;   97US-0063734P.
PR 29-OCT-1997;   97US-0063735P.
PR 29-OCT-1997;   97US-0063738P.
PR 29-OCT-1997;   97US-0064215P.
PR 31-OCT-1997;   97US-0063870P.
PR 31-OCT-1997;   97US-0064103P.
PR 03-NOV-1997;   97US-0064248P.
PR 07-NOV-1997;   97US-0064809P.
PR 12-NOV-1997;   97US-0051186P.
PR 17-NOV-1997;   97US-0065846P.
PR 18-NOV-1997;   97US-0065693P.
PR 21-NOV-1997;   97US-0066120P.
PR 24-NOV-1997;   97US-0066364P.
PR 24-NOV-1997;   97US-0066453P.
PR 24-NOV-1997;   97US-0066466P.
PR 24-NOV-1997;   97US-0066511P.
PR 24-NOV-1997;   97US-0066770P.
PR 24-NOV-1997;   97US-0066772P.
PR 10-SEP-1998;   98WO-US018824.
PR 14-SEP-1998;   98WO-US019177.
PR 16-SEP-1998;   98WO-US019330.
PR 17-SEP-1998;   98WO-US019437.
PR 01-DEC-1998;   98WO-US025108.
PR 08-SEP-1999;   99WO-US020594.
PR 13-SEP-1999;   99WO-US020944.
PR 15-SEP-1999;   99WO-US021090.
PR 15-SEP-1999;   99WO-US021547.
PR 05-OCT-1999;   99WO-US023089.
PR 29-NOV-1999;   99WO-US028214.
PR 30-NOV-1999;   99WO-US028313.
PR 01-DEC-1999;   99WO-US028301.
PR 02-DEC-1999;   99WO-US028564.
PR 02-DEC-1999;   99WO-US028565.
PR 16-DEC-1999;   99WO-US030095.
PR 20-DEC-1999;   99WO-US030911.
PR 20-DEC-1999;   99WO-US030999.
PR 06-JAN-2000;   2000WO-US000219.
PR 11-FEB-2000;   2000WO-US003565.
PR 22-FEB-2000;   2000WO-US004414.
PR 24-FEB-2000;   2000WO-US005004.
PR 02-MAR-2000;   2000WO-US005841.
PR 20-MAR-2000;   2000WO-US007377.
PR 30-MAR-2000;   2000WO-US008439.
PR 22-MAY-2000;   2000WO-US014042.
PR 02-JUN-2000;   2000WO-US015264.
PR 28-JUL-2000;   2000WO-US020710.
PR 24-AUG-2000;   2000WO-US023328.
PR 18-SEP-2000;   2000US-00665350.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI Williams PM,   Wood WI;
XX
DR WPI; 2003-147434/14.
DR P-PSDB; ABU54350.
XX
PT New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
PT treating inflammatory diseases, organ failure, atherosclerosis, cardiac
PT injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
PT disease.
XX
PS Claim 2; Fig 8; 473pp; English.
XX

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CC   The invention relates to an isolated PRO polypeptide having at least 80%
CC   amino acid sequence identity to: (a) any one of 61 fully defined amino
CC   acid sequences given in the specification (appearing as ABU54407-
CC   ABU54407); (b) an amino acid sequence encoded by the nucleotide sequence
CC   deposited under American Type Culture Collection (accession numbers
CC   listed in the specification); (c) any one of the PRO sequences which
CC   lacks its associated signal peptide; (d) an extracellular domain of the
CC   PRO polypeptide with its associated signal peptide; or (e) an
CC   extracellular domain of the PRO polypeptide which lacks its associated
CC   signal peptide. Also include are the nucleic acids encoding the PRO
CC   polypeptides, vectors, host cells and anti-PRO antibodies. The PRO
CC   polypeptides and nucleic acids are useful in diagnosing or treating
CC   enterocolitis, gastrointestinal ulceration, skin diseases associated with
CC   abnormal keratinocyte differentiation, e.g. psoriasis or epithelial
CC   cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's
CC   disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g.
CC   rheumatoid arthritis, asthma or multiple sclerosis, organ failure,
CC   atherosclerosis, cardiac injury, infertility, birth defects, premature
CC   aging, AIDS, cancer, diabetic complications, or mutations in general. The
CC   polypeptides are also useful for wound repair and associated therapies
CC   concerned with re-growth of tissue. The nucleotide sequences may be used
CC   as hybridisation probes in chromosome and gene mapping, or in generating
CC   antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
CC   polypeptides, in assays to identify other proteins or molecules involved
CC   in binding reaction, to generate transgenic animals or knockout animals,
CC   which in turn are useful in the development and screening of
CC   therapeutically useful reagents, for chromosome identification, and
CC   tissue typing. The PRO polypeptides and nucleic acid molecules are also
CC   useful in gene therapy, and as molecular weight markers for protein
CC   electrophoresis purposes. The anti-PRO antibodies may be used in
CC   diagnostic assays for PRO, or for the affinity purification of PRO from
CC   recombinant cell culture or natural sources. The present sequence encodes
CC   a PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match             93.2%;  Score 953.4;  DB 7;  Length 960;
Best Local Similarity   99.9%;  Pred. No. 1.5e-208;
Matches  954;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy     69 GCTGCTTGCCTGTTGATGGCAGGCTTGGCCCTGCAGCGACTGCCCTGCTGTGCTA 128
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Db      1 GCTGCTTGCCTGTTGATGGCAGGCTTGGCCCTGCAGCGACTGCCCTGCTGTGCTA 60

Qy    129 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy    189 GGGGAGCAGCAGTGCTGGACCCGCGCATCCCGCAGTTGGCCTCCTGACCGTCATCAGCAA 248
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 GGGGAGCAGCAGTGCTGGACCCGCGCATCCCGCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy    249 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 308
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 AGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 240

Qy    309 CACGGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCGGGCCCATGCCCTGAGCCGGCTGC 368
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 CACGGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCGGGCCCATGCCCTGAGCCGGCTGC 300

Qy    369 CGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTCGGCCTGCAGGTGCCCCAGCTATA 428
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301 CGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTCGGCCTGCAGGTGCCCCAGCTATA 360

Qy    429 GGGTCTGGGGGGCCCCCGGCTGCAGCCCCACACTGGGTGCCCAGGCCTTCTGTGCCAC 488
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361 GGGTCTGGGGGGCCCCCGGCTGCAGCCCCACACTGGGTGCCCAGGCCTTCTGTGCCAC 420

Qy    489 TCCTCACAGACCTGGCCCAGTGGGAGCCTTGTTCCTGAGGCACATCCTAACGCAA 548
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421 TCCTCACAGACCTGGCCCAGTGGGAGCCTTGTTCCTGAGGCACATCCTAACGCAA 480

Qy    549 GTCTGACCATGTATGTCTGACCCCTGTCCCCACCCTGCCCACCCTGACCCCTCTCCA 608
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481 GTCTGACCATGTATGTCTGACCCACCCTGTCCCCACCCTGCCCACCCTGACCCCTCCCA 540

Qy    609 GGACTCCCACCCGGCAGATCAGCTCAGTGACACAGATCCGCTGCAGATGGCCCCTCCA 668
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541 GGACTCCCACCCGGCAGATCAGCTCAGTGACACAGATCCGCTGCAGATGGCCCCTCCA 600

Qy    669 ACCCTCTGCTGCTGTTTCATGGCCCAGCATTCTCACCCTTAACCCTGCTCAGGC 728
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601 ACCCTCTGCTGCTGTTTCATGGCCCAGCATTCTCCACCCTTAACCCTGCTCAGGC 660

Qy    729 ACCTCTTCCCCAGGAAGCCTTCCCTGCCCGCCCCATCTATGACTTGAGCCAGGTCTGGT 788
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661 ACCTCTTCCCCAGGAAGCCTTCCCTGCCCGCCCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy    789 CCGTGGTGTCCCCCGCCACCAGCAGGGACACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721 CCGTGGTGTCCCCCGCCACCAGCAGGGACACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy    849 GATGAAGTGGACTGAGTAGAACTGGAGGACTCGACTGAAGAGTCGACGTGGAGTCTCC 908
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781 GATGAAGTGGACTGAGTAGAACTGGAGGACTGAAGAGTCGACGTGGAGTCTCC 840

Qy    909 AGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 968
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841 AGAGATGGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy    969 AATGGCAGCCTGAGCAGCAGCAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901 AATGGCAGCCTGAGCAGCAGCAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 15
ACH06793
ID   ACH06793 standard; cDNA; 960 BP.
XX
AC   ACH06793;
XX
DT   08-OCT-2003 (first entry)
XX
DE   Human secreted/transmembrane polypeptide PRO232 cDNA.
XX
KW   Human; gene; ss; abnormal bleeding; gynaecological disease; asthma;
KW   hysterectomy; angiogenesis; coronary ischaemic condition; skin disease;
KW   gastrointestinal mucosa disorder; acute mucosal lesion; neuropathy; ALS;
KW   chronic mucosal lesion; abnormal keratinocyte differentiation; psoriasis;
KW   Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;
KW   uncontrolled cell growth; cancer; blood coagulation cascade; thrombosis;
KW   haemorrhage; endometrial bleeding; angiogenesis; wound healing; tumour;
KW   tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.
XX
OS   Homo sapiens.
XX
PN   US200304839-A1.
XX
PD   06-MAR-2003.
XX
PF   10-JUL-2001; 2001US-00902903.
XX
PR   17-SEP-1997; 97US-0059113P.
PR   17-SEP-1997; 97US-0059115P.
PR   17-SEP-1997; 97US-0059117P.
PR   17-SEP-1997; 97US-0059119P.
PR   17-SEP-1997; 97US-0059121P.
PR   17-SEP-1997; 97US-0059122P.
PR   17-SEP-1997; 97US-0059184P.
PR   18-SEP-1997; 97US-0059263P.
PR   18-SEP-1997; 97US-0059266P.
PR   15-OCT-1997; 97US-0062125P.
PR   17-OCT-1997; 97US-0062285P.
PR   17-OCT-1997; 97US-0062287P.
PR   21-OCT-1997; 97US-0063486P.
PR   24-OCT-1997; 97US-0062814P.

PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063120P.
PR   24-OCT-1997;   97US-0063121P.
PR   24-OCT-1997;   97US-0063127P.
PR   24-OCT-1997;   97US-0063128P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063541P.
PR   28-OCT-1997;   97US-0063542P.
PR   28-OCT-1997;   97US-0063544P.
PR   28-OCT-1997;   97US-0063549P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063564P.
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063732P.
PR   29-OCT-1997;   97US-0063734P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   29-OCT-1997;   97US-0064215P.
PR   31-OCT-1997;   97US-0063870P.
PR   31-OCT-1997;   97US-0064103P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
PR   12-NOV-1997;   97US-0065186P.
PR   17-NOV-1997;   97US-0065846P.
PR   18-NOV-1997;   97US-0065691P.
PR   21-NOV-1997;   97US-0066120P.
PR   21-NOV-1997;   97US-0066364P.
PR   24-NOV-1997;   97US-0066453P.
PR   24-NOV-1997;   97US-0066466P.
PR   24-NOV-1997;   97US-0066551P.
PR   24-NOV-1997;   97US-0066770P.
PR   24-NOV-1997;   97US-0066772P.
PR   25-NOV-1997;   97US-0066840P.
PR   12-DEC-1997;   97US-0069425P.
PR   04-JUN-1998;   98US-0088026P.
PR   10-SEP-1998;   98US-0099803P.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98US-0100262P.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98US-0100858P.
PR   17-SEP-1998;   98WO-US019437.
PR   13-OCT-1998;   98US-0104080P.
PR   20-NOV-1998;   98US-0109304P.
PR   01-DEC-1998;   98WO-US025108.
PR   22-DEC-1998;   98US-0113296P.
PR   07-JUL-1999;   99US-0143048P.
PR   26-JUL-1999;   99US-0145698P.
PR   28-JUL-1999;   99US-0146222P.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   01-DEC-1999;   99WO-US028301.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   05-JAN-2000;   2000WO-US000219.
PR   11-FEB-2000;   2000WO-US003565.
PR   22-FEB-2000;   2000WO-US004414.
PR   24-FEB-2000;   2000WO-US005004.
PR   02-MAR-2000;   2000WO-US005841.
PR   20-MAR-2000;   2000WO-US007377.
PR   30-MAR-2000;   2000WO-US008439.
PR   22-MAY-2000;   2000WO-US014042.

PR   02-JUN-2000;   2000WO-US015264.
PR   28-JUL-2000;   2000WO-US020710.
PR   24-AUG-2000;   2000WO-US023328.
PR   18-SEP-2000;   2000US-00665350.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Ashkenazi A,   Botstein D,   Desnoyers L,   Eaton DL,   Ferrara N;
PI   Filvaroff E,   Fong S,   Gao W,   Gerber H,   Gerritsen ME,   Goddard A;
PI   Godowski PJ,   Grimaldi JC,   Gurney AL,   Hillan KJ,   Kljavin IJ;
PI   Mather JP,   Pan J,   Paoni NF,   Roy MA,   Stewart TA,   Tumas D;
PI   Williams PM,   Wood WI;
XX
DR   WPI; 2003-492258/46.
DR   P-PSDB; AB047365.
XX
PT   Novel secreted and transmembrane polypeptides and polynucleotides
PT   encoding them useful for treating abnormal bleeding involved in
PT   gynecological diseases, skin diseases and neurodegenerative diseases.
XX
PS   Claim 3; Fig 8; 478pp; English.
XX
CC   The invention relates to an isolated PRO polypeptide. PRO317 is useful in
CC   diagnosing or treating abnormal bleeding involved in gynecological
CC   diseases e.g. to avoid or lessen the need for hysterectomy. PRO317 may
CC   also be useful as an agent that affects angiogenesis and PRO317 is useful
CC   in anti-tumour indications or in treating coronary ischaemic conditions.
CC   PRO211 and PRO217 polypeptides are useful for treating disorders
CC   associated with the preservation and maintenance of gastrointestinal
CC   mucosa and the repair of acute and chronic mucosal lesions, skin diseases
CC   associated with abnormal keratinocyte differentiation (e.g. psoriasis).
CC   PRO187 polypeptide is useful for treating Parkinson's disease,
CC   Alzheimer's disease, anyotrophic lateral sclerosis (ALS), neuropathies
CC   and disease related to uncontrolled cell growth, e.g. cancer. PRO219
CC   polypeptide plays a regulatory role in the blood coagulation cascade.
CC   PRO246 polypeptides which serves as tumour specific antigens may be
CC   exploited as therapeutic targets for anti-tumour drugs. PRO269
CC   polypeptide is useful as an antithrombotic agent with reduced risk for
CC   haemorrhage as compared with heparin. PRO317 polypeptide is useful in
CC   treating endometrial bleeding angiogenesis. PRO287 polypeptides and
CC   portion have therapeutic applications in wound healing and tissue repair.
CC   PRO234 polypeptides are useful for treating asthma, rheumatoid arthritis,
CC   psoriasis and multiple sclerosis. The polypeptide and its nucleic acid
CC   are useful for tissue typing. PRO antibodies are useful for
CC   immunohistochemical staining and/or assay of sample fluids. Anti-PRO
CC   antibodies are useful in diagnostic assays for PRO e.g. detecting its
CC   expression in specific cells, tissues or serum and for affinity
CC   purification of PRO from recombinant cell culture or natural sources. The
CC   present sequence represents cDNA encoding a human secreted/transmembrane
CC   PRO polypeptide
XX
SQ   Sequence 960 BP; 182 A; 326 C; 274 G; 178 T; 0 U; 0 Other;

Query Match   93.2%;   Score 953.4;   DB 7;   Length 960;
Best Local Similarity   99.9%;   Pred. No. 1.5e-208;
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us-09-079-874-12.rni

Copyright   GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 18, 2004, 06:05:35 ; Search time 119.507 seconds
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
               Maximum Match 100%
               Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	953.4	93.2	960	4	US-09-907-794A-17	Sequence 17, Appl
2	953.4	93.2	960	4	US-09-905-125A-17	Sequence 17, Appl
3	953.4	93.2	960	3	US-09-902-775A-17	Sequence 17, Appl
4	879.6	86.0	998	3	US-09-203-939-1	Sequence 1, Appli
5	879.6	86.0	998	3	US-09-251-835-1	Sequence 1, Appli
6	879.6	86.0	998	3	US-09-318-503-1	Sequence 1, Appli
7	879.6	86.0	998	4	US-09-038-261A-1	Sequence 1, Appli
8	879.6	86.0	998	4	US-09-564-329A-1	Sequence 1, Appli
9	451.4	44.1	494	2	US-08-675-508-4	Sequence 4, Appli
10	284	27.8	288	2	US-08-675-508-23	Sequence 23, Appl
11	262.8	25.7	286	2	US-08-675-508-21	Sequence 21, Appl
12	230	22.5	230	2	US-08-675-508-24	Sequence 24, Appl
13	218.4	21.3	232	2	US-08-675-508-25	Sequence 25, Appl
14	203.2	19.9	441	3	US-09-203-939-3	Sequence 3, Appli
15	203.2	19.9	441	3	US-09-251-835-3	Sequence 3, Appli
16	203.2	19.9	441	3	US-09-318-503-3	Sequence 3, Appli
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18	203.2	19.9	441	4	US-09-564-329A-3	Sequence 3, Appli
19	170.6	16.7	251	2	US-08-675-508-22	Sequence 22, Appl
20	77	7.5	77	2	US-08-675-508-26	Sequence 26, Appl
21	63.4	6.2	7218	4	US-08-232-463-14	Sequence 14, Appl
22	52.4	5.1	280	2	US-08-675-508-17	Sequence 17, Appl
23	52.2	5.1	262	2	US-08-675-508-10	Sequence 10, Appl
24	52.2	5.1	289	2	US-08-675-508-11	Sequence 11, Appl
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26	52.2	5.1	1066	1	US-08-154-916-1	Sequence 1, Appli
27	52.2	5.1	1095	2	US-09-139-424-1	Sequence 1, Appli

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32	45	4.4	1893	4	US-09-252-991A-3131	Sequence 3131, Ap
33	45	4.4	2805	4	US-09-252-991A-2944	Sequence 2944, Ap
34	44.4	4.3	275	2	US-08-675-508-18	Sequence 18, Appl
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36	44.4	4.3	957	4	US-09-252-991A-15376	Sequence 15376, A
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43	43.6	4.3	2721	4	US-09-252-991A-4237	Sequence 4237, Ap
44	43.2	4.2	471	4	US-09-252-991A-15278	Sequence 15278, A
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ALIGNMENTS

RESULT 1
US-09-907-794A-17

; Sequence 17, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547

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RESULT 2
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; Sequence 17, Application US/09905125A
; Patent No. 664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
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; PRIOR APPLICATION NUMBER: PCT/US99/20944
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; PRIOR APPLICATION NUMBER: PCT/US99/21090
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; PRIOR APPLICATION NUMBER: PCT/US99/28214
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; PRIOR APPLICATION NUMBER: PCT/US99/28313
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; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
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; PRIOR FILING DATE: 1999-12-02
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; PRIOR FILING DATE: 1999-12-16
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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
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; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-794A-17

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Qy 489 TCCTCACAGACTGGCCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 548
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Db 421 TCCTCACAGACTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 480

Qy 549 GTCTGACCATGTATGTCTGCACCCTGCACCCTCCCCCTGTCCCCACCCTGTCCCCATGGGCCCTCTCCA 608
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Db 481 GTCTGACCATGTATGTCTGCACCCTGCACCCTCCCCCTGTCCCCACCCTGTCCCCATGGGCCCTCTCCA 540

Qy 609 GGACTCCACCCGGCAGATCAGCTCAGTGACACAGATCCGCTTGCAGATGGCCCCTCCA 668
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Qy 669 ACCCTCCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 728
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Db 601 ACCCTCCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 660

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;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR APPLICATION FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR APPLICATION FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR APPLICATION FILING DATE: 1999-11-10
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR APPLICATION FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR APPLICATION FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR APPLICATION FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR APPLICATION FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR APPLICATION FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR APPLICATION FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID-NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-905-125A-17

Query Match        93.2%;     Score 953.4;   DB 4;    Length 960;
Best Local Similarity  99.9%;    Pred. No. 3.6e-227;
Matches  954;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   69 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCACTGCCCTGCTGTGCTA 128
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Qy  129 CTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
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Qy  189 GGGGAGCAGTGCTGGACCGCGCCATCCGCGAGTTGCCTCCTGACCGTCATCAGCAA 248
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Qy  309 CACGTGCTGTGACACCGACTTGTGCAAGCCCAGCGGCCCATGCCCGCAGCCGGCTGC 368
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Qy  429 GGCTGCTGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCTGCCCCAGGCCTCTGTGCCAC 488
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Qy  489 TCCTGACAGACCTGCGCCCAGTGGGAGCCGTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 548
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Db  421 TCCTGACAGACCTGCCCCAGTGGGAGCCGTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 480

Qy  549 GTCTGACCATGTATGTCTGCAACCCCTGTCCCCACCCTGACCCTTCCCACCCTCTCCA 608
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Qy  609 GGACTCCCACCCGCAGATCAGTCAGTGACACAGATCCGCCTGCGAGATGGCCCCTTCCA 668
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Db  541 GGACTCCCACCCGCAGATCAGTCAGTGACACAGATCCGCCTGCGAGATGGCCCCTTCCA 600

Qy  669 ACCCTCTCTGCTGCTGTTTCCATGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 728
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Db  601 ACCCTCTCTGCTGCTGTTTCCATGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 660
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Qy  729 ACCTTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT 788
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Qy  789 CCGTGGTGTCCCCGCCACCCAGCAGGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
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Db  721 CCGTGGTGTCCCCGCCACCCAGCAGGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy  849 GATGAAGTGGACTGAGTAGAACTGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 908
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Qy  969 AATGGCAGCCTGAGCACAGCCTAGGCCCTTAATAAACACCTGTTGATAAGCCCA 1023
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RESULT 3
US-09-902-775A-17
; Sequence 17, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/902,775A
;   CURRENT FILING DATE: 2001-07-10
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR APPLICATION FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR APPLICATION FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR APPLICATION FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR APPLICATION FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR APPLICATION FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR APPLICATION FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR APPLICATION FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR APPLICATION FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
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;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;  LENGTH: 960
;  TYPE: DNA
;  ORGANISM: Homo sapiens
US-09-902-775A-17

Query Match             93.2%;   Score 953.4;  DB 4;   Length 960;
Best Local Similarity   99.9%;   Pred. No. 3.6e-227;
Matches   954;   Conservative   0;   Mismatches   0;   Indels   1;   Gaps   0;

Qy     69 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 128
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Qy    129 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
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Db     61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy    189 GGGGGAGCAGTGCTGGACCGCGCATCCGGCAGTTGGCCTCCTGACCGTCATCAGCAA 248
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Qy    249 AGCTGCGACTTGAACTGCGTGGATGACTACTACGTGGGCAAGAAGAACAT 308
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Db    181 AGCTGCGACTTGAACTGCGTGGATGACTACTACGTGGGCAAGAAGAACAT 240

Qy    309 CACGTGCTGTGACACCGACTTGTCGCAACGCCAGCCCTGCAGCCGGCTGC 368
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Qy    369 CGCCATCCTTGGCGTGTCCTCTCGGCACTCGGCCGCCAGTCAGTATA 428
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Qy    429 GGCTCTGGGGGGGCCCCGCTGCAGCCCCACACTGGGTGTGTGCCCACCAC 488
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Qy    489 TCCTCACAGACTTGGCCCAGTGGGAGGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 548
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Qy    549 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCCTGACCCTCCCTCCA 608
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Qy    609 GGACTCCACCCCGGCAGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGCCCCTCCA 668
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Qy    909 AGAGATGGGGCCTGGAGGGCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 968
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RESULT 4
US-09-203-939-1
;  Sequence 1, Application US/09203939
;  Patent No. 6258939
;  GENERAL INFORMATION:
;     APPLICANT: Reiter, Robert E.
;     APPLICANT: Witte, Owen N.
;     TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
;     FILE REFERENCE: 30435.54US11
;     CURRENT APPLICATION NUMBER: US/09/203,939
;     CURRENT FILING DATE: 2000-12-02
;     PRIOR APPLICATION NUMBER: 08/814,279
;     PRIOR FILING DATE: 1997-03-10
;     PRIOR APPLICATION NUMBER: 60/071,141
;     PRIOR FILING DATE: 1998-01-12
;     PRIOR APPLICATION NUMBER: 60/074,675
;     PRIOR FILING DATE: 1998-02-13
;     PRIOR APPLICATION NUMBER: 09/038,261
;     PRIOR FILING DATE: 1998-03-10
;     NUMBER OF SEQ ID NOS: 16
;     SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;     LENGTH: 998
;     TYPE: DNA
;     ORGANISM: HUMAN PSCA (hPSCA)
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;        LOCATION: (543)
;        OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;        NAME/KEY: misc_feature
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;        NAME/KEY: misc_feature
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;  LOCATION: (697)
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;  LOCATION: (926)
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US-09-203-939-1

Query Match          86.0%;  Score 879.6;  DB 3;  Length 998;
Best Local Similarity 96.0%;  Pred. No. 7.1e-209;
Matches 939;  Conservative 0;  Mismatches 34;  Indels 5;  Gaps 4;

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Db    250 ACGTGGGCAAGAGAACATCACGTGCTGTGACACCGACTTGTCCAACGCCAGCGGGGCCC 309

Qy    350 ATGCCCTGCAGCCGGCTGCCGCCGCCATCCTTGCGCTGGTCTCCCTGCTCCTGCTGCTCT 409
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Qy    410 GGGGACCCGGCCAGCTATAGGCTCTGGGGGGCCCCGCTGCGAGCCACAGCTGGGTGTGTG 469
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Db    430 CCCCAGGCCTTGTGCCACTCCTCACAGAACTCGGCCCAGTGGGAGCCTGTCCTGGTTCC 489

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Db    550 GACCTTCCCATGGGCCCTTTTCCAGATTCCNACCNGGCAGATCAGTTTTAGTGANACANA 609

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Qy    826 CAGGAGGGGCCCAGTAAAGGTCGAGATGAAGTGGACTGGACTGAGGAGGACAAAGAGTC 885
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Qy    886 GACGTGAGTTCCTGGGAGTCTCCGGAGTCCAGAGATGGGGCCTGGAGGGGACGGGGAGGGGGCCCAGG 945
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Qy    946 CCTCACATTCGTGGGGGTCCCTGAATGGCAGCCTGAGCACAGCGGTAGGCCCTTAATAAAC 1005
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Db    910 CCTCACATTTGTGGGGNTCCC-GAATGGCAGCAGCCTGAGCAGCACAGCCGTAGGCCCTTAATAAAC 968

Qy   1006 ACCTGTTGGATAAGCCCA 1023
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Db    969 ACCTGTTGGATAAGCCAA 986

RESULT 5
US-09-251-835-1
; Sequence 1, Application US/09251835A
; Patent No. 6261789
; GENERAL INFORMATION:
;  APPLICANT: Reiter, Robert E.
;  APPLICANT: Witte, Owen N.
;  TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
;  FILE REFERENCE: 30435.54USI2
;  CURRENT APPLICATION NUMBER: US/09/251,835A
;  CURRENT FILING DATE: 1999-02-17
;  PRIOR APPLICATION NUMBER: 08/814,279
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: 60/071,141
;  PRIOR FILING DATE: 1998-01-12
;  PRIOR APPLICATION NUMBER: 60/074,675
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: 09/038,261
;  PRIOR FILING DATE: 1998-03-10
;  PRIOR APPLICATION NUMBER: 09/203,939
;  PRIOR FILING DATE: 1998-12-02
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
;  LENGTH: 998
;  TYPE: DNA
;  ORGANISM: HUMAN PSCA (hPSCA)
;  FEATURE:
;  NAME/KEY: misc_feature
;  LOCATION: (543)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (580)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (584)
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;  LOCATION: (615)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (636)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
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;  LOCATION: (646)
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;  LOCATION: (697)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
;  NAME/KEY: misc_feature
;  LOCATION: (926)
;  OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
US-09-251-835-1

Query Match          86.0%;  Score 879.6;  DB 3;  Length 998;
Best Local Similarity 96.0%;  Pred. No. 7.1e-209;
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; Sequence 1, Application US/09318503A
; Patent No. 6261791
; GENERAL INFORMATION:
;  APPLICANT: Reiter, Robert E.
;  APPLICANT: Witte, Owen N.
;  TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
;  FILE REFERENCE: 30435.54USI3
;  CURRENT APPLICATION NUMBER: US/09/318,503A
;  CURRENT FILING DATE: 1999-05-25
;  EARLIER APPLICATION NUMBER: 08/814,279
;  EARLIER FILING DATE: 1997-03-10
;  EARLIER APPLICATION NUMBER: 60/071,141
;  EARLIER FILING DATE: 1998-01-12
;  EARLIER APPLICATION NUMBER: 60/074,675
;  EARLIER FILING DATE: 1998-02-13
;  EARLIER APPLICATION NUMBER: 09/038,261
;  EARLIER FILING DATE: 1998-03-10
;  EARLIER APPLICATION NUMBER: 09/203,939
;  EARLIER FILING DATE: 1998-12-02
;  EARLIER APPLICATION NUMBER: 09/251,835
;  EARLIER FILING DATE: 1999-02-17
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;  LENGTH: 998
;  TYPE: DNA
;  ORGANISM: HUMAN PSCA (hPSCA)
;  FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (543)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (580)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (584)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  FEATURE:
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;   NAME/KEY: misc_feature
;   LOCATION: (608)
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;   NAME/KEY: misc_feature
;   LOCATION: (615)
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;   NAME/KEY: misc_feature
;   LOCATION: (640)
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;  FEATURE:
;   NAME/KEY: misc_feature
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;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
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;   NAME/KEY: misc_feature
;   LOCATION: (697)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
;  FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (926)
;   OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
US-09-318-503-1
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Qy    50 CAGTGACCATGAAGGCTGTGCTGCTTGCCCTCGTTGATGGCAGGCTTGGCCCTGCAGCCAG 109
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Qy   170 TGGAGAACTGCACCCAGTGGGGAGCAGTGCTGGACCGCCGCCATCCGCGCAGTTGGCC 229
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Qy   230 TCCTGACCGTCATCAGCAAAAGGCTGCAGCTTGAACTGCTGATGACTCACAGGACTACT 289
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Qy   290 ACGTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCC 349
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Qy   350 ATGCCCTGCAGCCGCTGCCGCGCCATCCTTGGCCTGCTCCCTGCACTCGGCCTGCTGCTCT 409
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Qy   470 CCCCAGGCCTCTGTGCCACTCCTCACAG-ACCTGGCCCAGTGGAGGCCTGTCCTGGTTCC 528
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Db   430 CCCCAGGCCTTGTGCCACTCCTCACAGAACCTGGCCCAGTGGGAGGCCTGTCCTGGTTCC 489

Qy   529 TGAGGCACATCCTAAGGCAAGTCTGACCATGTATGCTGCACCCCTGTCCCCC--ACCCT 586
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Db   490 TGAGGCACATCCTAAGGCAAGTTTGACCATGTATGTTGCACCCCTTTCCCCNAACCCT 549

Qy   587 GACCCCTCCCAT-GGCCCTCCAGGACTCCCCACCCGCAGATCAGCTCTAGTGACACAGA 645
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Db   550 GACCTTCCCATGGCCCATGGCCCTTTTCAGGATTCCNACCNGCAGATCAGTTTTAGTGANACANA 609

Qy   646 TCCGCCTGCAGATGGCCCCTCCAACCCTCTCTGCTGTTTCCATNGCCCAGCATTCTC 705
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Qy   946 CCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGCCCCTTAATAAAC 1005
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Db   910 CCTCACATTTGTGGGGNTCCC-GAATGCCAGCCAGCCTGAGCACACGCGTAGCCCCTTAATAAAC 968

Qy  1006 ACCTGTTGGATAAGCCCA 1023
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Db   969 ACCTGTTGGATAAGCCAA 986

RESULT 6
US-09-318-503-1
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RESULT 7
US-09-038-261A-1

; Sequence 1, Application US/09038261A
; Patent No. 6267960
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54US01
; CURRENT APPLICATION NUMBER: US/09/038,261A
; CURRENT FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
;
; SEQ ID NO 1
; LENGTH: 998
; TYPE: DNA
; ORGANISM: HUMAN PSCA (hPSCA)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (543)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (580)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (584)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (604)
; OTHER INFORMATION: any nucleotide (i.e. a, c, g or t)
; NAME/KEY: misc_feature
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US-09-038-261A-1

Query Match   86.0%;   Score 879.6;   DB 3;   Length 998;
Best Local Similarity   96.0%;   Pred. No. 7.1e-209;
Matches 939;   Conservative   0;   Mismatches 34;   Indels   5;   Gaps   4;

Qy   50 CAGTGACCATGAAGGCTGTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAG 109
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Qy   290 ACGTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGGCCAGCGGGGGCCC 349
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Db   250 ACGTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGGCCAGCGGGGGCCC 309

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Qy   470 CCCAGGCCTCTGTGCCACTCCTCACAG-ACCTGGGAGAGCCTGTCTCCTGGTTCC 528
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Qy   946 CCTCACATTCGTGGGGCCTCCTGAATGGCACAGCCTGAGCACAGCCGTAGGCCCTTAATAAAC 1005

Qy   1006 ACCTGTTGGATAAGCCCA 1023
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Db   969 ACCTGTTGGATAAGCCAA 986

Query Match   86.0%;   Score 879.6;   DB 3;   Length 998;
Best Local Similarity   96.0%;   Pred. No. 7.1e-209;
Matches 939;   Conservative   0;   Mismatches 34;   Indels   5;   Gaps   4;

Qy   50 CAGTGACCATGAAGGCTGTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAG 109
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Qy    470  CCCCAGGCCTCTGCCACTCCTCACAG-ACCTGGCCCAGTGGGAGCCTGTCCTGGTTCC  528
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Qy    587  GACCCTCCCAT-CGCCCCTCCCAGGACTCCCACCCCNACCNGGCAGATCAGCTCTAGTGACACAGA  645
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Qy    646  TCCGCCCTGCAGATGGCCCCTCCAACCCTCTCTGTCGCTGTTTCCATGGCCCAGCATTCTC  705
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Qy    886  GAGCTGAGTTCCTGGAGTCTCCAGAGATGGGGCCTGGAGGCGGCCTGGAGGGGCCAGG  945
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Qy    1006 ACCTGTTGGATAAGCCCA  1023
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RESULT 8
US-09-564-329A-1

; Sequence 1, Application US/09564329A
; Patent No. 6541212
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54USI4
; CURRENT APPLICATION NUMBER: US/09/564,329A
; CURRENT FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20

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; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/251,835
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/308,503
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
;
; SEQ ID NO 1
; LENGTH: 998
; TYPE: DNA
; ORGANISM: HUMAN PSCA (hPSCA)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (543)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (580)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (584)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (604)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (608)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (615)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (636)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (640)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (646)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (697)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
; NAME/KEY: misc_feature
; LOCATION: (926)
; OTHER INFORMATION: any nucleotide (i.e., a, c, g or t)
US-09-564-329A-1
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Query Match   86.0%; Score 879.6; DB 4; Length 998;
Best Local Similarity   96.0%; Pred. No. 7.1e-209;
Matches 939; Conservative   0; Mismatches 34; Indels 5; Gaps 4;

```
Qy    50  CAGTGACCATGAGAAGGCTGTGTGCTTGCCCTGTTGCCCGTTGCCCTGTTGATGGCAGGCTTGGCCCTGTTCGCAGCCAG  109
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    10  CAGTGACCATGAGAAGGCTGTGTGCTTGCCCTGTTGCCCGTTGCCCTGTTGATGGCAGGCTTGGCCCTGTTCGCAGCCAG  69

Qy    110 GCACTGCCCTGCCTGTGCTACTCCTGCCAAAGCCCAGTGAGCGAGTGCAACGAGGACTGCCTGCAGG  169
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    70  GCACTGCCCTGCCTGTGCTACTCCTGCCAAAGCCCAGTGAGCGAGCAACGAGGACTGCCTGCAGG  129
```

CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/675,508
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PP-0066 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 494 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY: SCAH-2
CLONE:
US-08-675-508-4

Query Match 44.1%; Score 451.4; DB 2; Length 494;
Best Local Similarity 97.8%; Pred. No. 7.6e-103;
Matches 483; Conservative 2; Mismatches 5; Indels 4; Gaps 3;

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Qy    52 GTGACCATGAAGGCTGTGCTGCTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC 111
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1 GTGACCATGAAGGCTGTGCTGCTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGC  60

Qy   112 ACTGCCCTGCTGCTCCTGCACTCCTGCAAAGCCCAGTGAGCAACGAGCCGCGAGGTG 171
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 ACTGCCCTGCTGCTCCTGCTACTCCTGCAAAGCCCAGTGAGCAACGAGCCGCGAGGTG 120

Qy   172 GAGAACTGCACCCAGCTGGGGAGGAGCAGTGCTGGACCGCGGCGCATCCGCGCCAGTTGGCCTC 231
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GAGAACTGCACCCAGCTGGGGAGGAGCAGTGCTGGACCGCGGCGCATCCGCGCCAGTTGGCCTC 180

Qy   232 CTGACCGTCATCAGCAAAGGCTGCGTGAACTGCGTGGATGACTGCACCACGGACTACTAC 291
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 CTGACCGTCATCAGCAAAGGCTGCGTGAACTGCGTGGATGACTGCACCACGGACTACTAC 240

Qy   292 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT 351
            ||||||||||||||||||||||||||||||||||||||||||||||:|||||||||||
Db   241 GTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCAT 300

Qy   352 GCCCTGCAGCCGGCTGCCGCGCTATAGGCTCTGGGGGCCCCGCTGCAGCCCAGTGGGTGCTGCTCTGG 411
            |||||||||||||||||||||||||||||||||||||||:||||||
Db   301 GCCCTGCAGCCGGCTGCCGCGCTATAGGCTCTGGGGGCCCCGMTGCAGCCCAGTGGGTGCTGCTCTGG 360

Qy   412 GGACCCGGCCAGCTATAGGCTCTGGGGGCCCCG--TCCTGGTTC 471
            ||||||||||||||||||||||||||| ||  || ||||||||
Db   361 GGACCCGGCCAGCTATAGGCTCTGGGGGCCCCGMTGCAGCCTAGC 420

Qy   472 CC-AGGCCTTCGTGTGCCACTTCCTGGAGCCTG--TCCTGGTTC 527
            || |||||||||||||||||  ||:||| ||  ||| |||||||
Db   421 CCAAGGCCTTCGTGTGCCACTCCTMACAGACCTGGGAGSCTGTCTCTNGGTTC 480

Qy   528 CTGAGGCACATCCT 541
            ||||||||||||||
Db   481 CTGAGGCACATCCT 494
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RESULT 10

```
Qy   170 TGGAGAACTGCACCCAGCTGGGGAGGAGCAGTGCTGGACCGCGGCGCATCCGCGCCAGTTGGCC 229
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   130 TGGAGAACTGCACCCAGCTGGGGAGGAGCAGTGCTGGACCGCGGCGCATCCGCGCCAGTTGGCC 189

Qy   230 TCCTGACCGTCATCAGCAAAGGCTGCGTGAACTGCGTGGATGACTGCACCACGGACTACT 289
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   190 TCCTGACCGTCATCAGCAAAGGCTGCGTGAACTGCGTGGATGACTGCACCACGGACTACT 249

Qy   290 ACGTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCC 349
            |||||||||||||||||||||||||||||||||||||||||||||||:||||||||||
Db   250 ACGTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCC 309

Qy   350 ATGCCCTGCAGCCGGCTGCCGCGGCTGCGGCCATCCTTGGCGTGCTCCCTGCACTCGGCTGCTGCTCT 409
            |||||||||||||||||||||||||||||||||||||||||||||||
Db   310 ATGCCCTGCAGCCGGCTGCCGCGGCTGCGGCCATCCTTGGCGTGCTCCCTGCACTCGGCCTGCTGCTCT 369

Qy   410 GGGAGACCCGGCCAGCTATAGGCTCTGGGGGCCCCGCTGCAGCCCAGTGGGTGCTGGTG 469
            |||||||||||||||||||||||||||||||||||||||||||||||
Db   370 GGGAGACCCGGCCAGCTATAGGCTCTGGGGGCCCCGCTGCAGCCCAGTGGGTGCTGGTG 429

Qy   470 CCCCAGGCCTTCGTGTGCCACTCCTCACAG-ACCTGGCGAGCCTGTCTCTGGTTCC 528
            |||||||||||||||||||||||| |||||| |||||||||||||||||||||
Db   430 CCCCAGGCCTTCGTGTGCCACTCCTCACAGAACCTGGGAGCCTGTCTCTGGTTCC 489

Qy   529 TGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCC--ACCCT 586
            |||||||||||||||||||||||||||||||||||||||||||| ||||||
Db   490 TGAGGCACACATCCTAACGCAAGTTGACCATGTATGTTGCACCCCTTTTCCCCNAACCCT 549

Qy   587 GACCCTCCCAT-GGCCCCTCTCCAGGACTCCCACCCGGCAGGATCAGCTCTAGTGACACAGA 645
            ||||||||||| ||||||||||||||||||||| |||| |||||||||||||
Db   550 GACCTTCCCATGGGCCCTTTTCCAGGATTCCNACCNGGCAGGATCAGTTTAGTGANACANA 609

Qy   646 TCCGCCTGCGAGATGGCCCCCTCCAACCCCTCTCGTGCTGCTGTTCCACGCCACCATTCTC 705
            |||||||||||||||||||||||||||||||||||||||||||||||
Db   610 TCCGCNTGCGAGATGGCCCCCTCCAACNTTNTGNTGGTTGTTCCATGNCCCAGCCATTTTC 669

Qy   706 CACCCTTAACCCTGTCTCAGGCACCTCTTCCCTGCCCACCCCAT 765
            |||||||||||||||||| |||||||||||||||||||
Db   670 CACCCTTAACCCTGTTCAGGCACTNNTTCCCCAGGAGCCTTCCTGCCCACCCCCAT 729

Qy   766 CTATGACTTGAGCGACCGGTCGTCCGTGTGTCCCCGCACCCAGGGGACAGGCACT 825
            ||||||||||||||||||||||||||||||||||||||||
Db   730 TTATGAATTGAGCCAGGTTTGGTCCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCAAT 789

Qy   826 CAGGAGGGCCCAGTAAAGGCTGAGATGAAGGTGACTGAGTGAACTGGAGGACAAGAGTC 885
            ||||||||||||||||||||||||||||||||||||||||||||
Db   790 CAGGAGGGGCCCAGTAAAGGCTGAGATGAAGGTGACTGAGTGAACTGGAGGACAAGAGTT 849

Qy   886 GACGTGAGTTCCTGGAGTCTCCAGAGATGGGGGCCTGGAGGAGGAAGGGCCAGG 945
            ||||||||||||||||||||||||||||||||||||||||
Db   850 GACGTGAGTTCCTGGAGTTTCCAGAGATGGGGGCCTGGAGGAGGAAGGGGCCAGG 909

Qy   946 CCTCACATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGCCTTAATAAAC 1005
            ||||||||||||||| || ||||||||||||||||||||||||||
Db   910 CCTCACATTTGTGGGGNTCCC-GAATGGCAGCCTGAGCACAGCGCCTTAATAAAC 968

Qy  1006 ACCTGTTGGATAAGCCCA 1023
            |||||||||||||||
Db   969 ACCTGTTGGATAAGCCAA 986
```

RESULT 9
US-08-675-508-4
; Sequence 4, Application US/08675508
; Patent No. 5856136
;
GENERAL INFORMATION:
APPLICANT: Au-Young, Janice
TITLE OF INVENTION: NOVEL HUMAN STEM CELL ANTIGENS
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive

US-08-675-508-23

; Sequence 23, Application US/08675508
; Patent No. 5856136
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL HUMAN STEM CELL ANTIGENS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/675,508
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0066 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 288 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY: BLADTUT02
; CLONE: 1312529
US-08-675-508-23

Query Match   27.8%; Score 284; DB 2; Length 288;
Best Local Similarity 100.0%; Pred. No. 2e-61;
Matches 284; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   52 GTGACCATGAAGGCTGTGTTGCCCTGTTGATGCGAGGTGCAGGCTTGGCCTGCAGCCAGGC 111
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GTGACCATGAAGGCTGTGTTGCCCTGTTGATGCGAGGTGCAGGCTTGGCCTGCAGCCAGGC 60

Qy   112 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG 171
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTG 120

Qy   172 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGGCAGTGTCGGCCTC 231
           ||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GAGAACTGCACCCAGCTGGGGGAGCAGTGCTGGCAGTGTCGGCCTC 180

Qy   232 CTGACCGTCATCAGCAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC 291
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 CTGACCGTCATCAGCAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTAC 240

Qy   292 GTGGGCAAGAAGAACATCACGTGCGACTTGTGCAA 335
           |||||||||||||||||||||||||||||||||||
Db   241 GTGGGCAAGAAGAACATCACGTGCGACTTGTGCAA 284

RESULT 11
US-08-675-508-21
; Sequence 21, Application US/08675508
; Patent No. 5856136
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL HUMAN STEM CELL ANTIGENS

; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/675,508
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0066 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY: UTRSNOT01
; CLONE: 588615
US-08-675-508-21

Query Match   25.7%; Score 262.8; DB 2; Length 286;
Best Local Similarity   95.8%; Pred. No. 3.5e-56;
Matches 275; Conservative   0; Mismatches 11; Indels   1; Gaps   1;

Qy   85 ATGGCAGGGCTTGGCCCTGCAGCCACTGCACCCTGCCTGCTACTCCTGCAAAGCCCAG 144
           ||||||||| ||||||||||||||||| ||||| ||||| ||||||||||||||||||
Db   1 ATGGCAGGGTTTGGCCCTGCAGCCAGGGACTGCCAGGAACTGCACCCAGCAGTGCTGG 60

Qy   145 GTGAGCAACGAGGACTGCCTGCGAGTGGCCTCCTGACCGTGAGCAACTGCACCCAGCAGTGCTGG 204
           |||||||||||||||||| |||||||||||| ||||| |||||||||||||||||||||||||||
Db   61 GTGAGCAACGAGGACTGCCTGCGCAGTTGCCCTGACCGTGGGCAGCAGTGCTGG 120

Qy   205 ACCGCGCGCATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAAGAGAACATCACGTGCTTGAAC 264
           ||||||||||||||||| |||||||||||| ||||||||||||||||||||||||||||||||||
Db   121 ACCGCGCGCATNCG-GCAGTTGGCCTNCTGACCGTCATCAGCAAGAGAACATCACGTGCTTGAAC 179

Qy   265 TGCGTGGATGACTCACAGACTACTACGTGGGCAAGAACATCACGTGCTGTGACACC 324
           |||||||||||||||| ||||||||||||||||||||||||||||||||||||||||
Db   180 TGCGTGGATGACTNACAGACTACTACGTGGGCAAGAACATCACGTGCTGTGACANC 239

Qy   325 GACTTGTGCAACGCCAGCGGGCCCATGCCCTGCAGCCCTGCAGNCGGCTNTCGC 371
           ||||||||||| ||||||||||||||||||||||||||||||||| ||||||||
Db   240 GACTTGTGCAANGGCANCGGGCCCATGCCCTGCAGNCGGCTNTCGC 286

RESULT 12
US-08-675-508-24
; Sequence 24, Application US/08675508
; Patent No. 5856136
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL HUMAN STEM CELL ANTIGENS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA

COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/675,508
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0066 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 230 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY: BLADTUT02
CLONE: 1314679
US-08-675-508-24

Query Match   22.5%;   Score 230; DB 2; Length 230;
Best Local Similarity   100.0%;   Pred. No. 4.4e-48;
Matches 230;   Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   312 GTGCTGTGACACCGACTTGTGCAACGCGGGGCCCATGCCCTGCCTGCAGCCGGCTGCCGC 371
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GTGCTGTGACACCGACTTGTGCAACGCGGGGCCCATGCCCTGCCTGCAGCCGGCTGCCGC   60

Qy   372 CATCCTTGGCTGCCTGCCTGCCTCCCTGCACTCGGCCTGCGTCGTCTCTGGGGACCCGGCCAGCTATAGGC 431
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CATCCTTGGCTGCCTGCCTGCCTCCCTGCACTCGGCCTGCGTCGTCTCTGGGGACCCGGCCAGCTATAGGC 120

Qy   432 TCTGGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTTCTGTGCCACTCC 491
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 TCTGGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTTCTGTGCCACTCC 180

Qy   492 TCACAGACCTGGCCCAGTGGGAGCCCTGTCCTGGTTCCTGAGGCACATCCT 541
           ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 TCACAGACCTGGCCCAGTGGGAGCCCTGTCCTGGTTCCTGAGGCACATCCT 230

RESULT 13
US-08-675-508-25
; Sequence 25, Application US/08675508
; Patent No. 5856136
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL HUMAN STEM CELL ANTIGENS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/675,508
; FILING DATE: Filed Herewith

COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/675,508
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0066 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 232 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY: BLADTUT02
CLONE: 1315052
US-08-675-508-25

Query Match   21.3%;   Score 218.4; DB 2; Length 232;
Best Local Similarity   99.1%;   Pred. No. 3.3e-45;
Matches 230;   Conservative   0; Mismatches   0; Indels   1; Gaps   1;

Qy   53 TGACCATGAAGGCTGTGCTACTCCTGCCCGTTGCTGCTGATGGCAGGCTTGCCCTGCAGCCAGGCA 112
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||
Db   1 TGACCATGAAGGCTGTGCTGCTGCTGCCCGTTGCCTGTTGATGGCAGGCTTGCCCTGCAGCCAGGCA   60

Qy   113 CTGCCCTGCTGTGCTACTCCTGCCAAAGCCAGGTGAGCAACGAGACGACTGCCTGCCAGGTGG 172
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTGCCCTGCTGTGCTACTCCTGCCAAAGCCAGGTGAGCAACGAGGACTGCCTGCCAGGTGG 120

Qy   173 AGAACTGCACCCAGCTGGGGAGCAGTGCTGGACCGTGCTGGACCGCGCATCCGCGCAGTTGGCCTCC 232
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 AGAACTGCACCCAGCTGGGGAGCAGTGCTGGACCGTGCTGGACCGCGCATCCGCGCAGTTGGCCTCC 180

Qy   233 TGACCGTCATCAGC-AAAGGCTGCAGCTTGAACTGCGTGATGACTCACAGG 283
           |||||||||||||| ||||||||||||||||||||||||||||||||||
Db   181 TGACCGTCATCAACAAAAGGCTGCAGCTTGAACTGCGTGATGACTCACAGG 232

RESULT 14
US-09-203-939-3
; Sequence 3, Application US/09203939
; Patent No. 6258939
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54USI1
; CURRENT APPLICATION NUMBER: US/09/203,939
; CURRENT FILING DATE: 2000-12-02
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR APPLICATION NUMBER: 1997-03-10
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 441
; TYPE: DNA
; ORGANISM: MURINE PSCA (mPSCA)
US-09-203-939-3

Query Match   19.9%;   Score 203.2; DB 3; Length 441;
Best Local Similarity   66.4%;   Pred. No. 2.4e-41;
Matches 292;   Conservative   0; Mismatches 148; Indels   0; Gaps   0;

Qy   58 ATGAAGGCTGTGCTGCTGCTGCCCGTTGCCGTTGCCCGTTGATGGCAGGCTTGCCCTGCAGCCAGGCCACTGCC 117
           ||||||||||| | || ||| |||||||||||| ||| |||||| | |||||| ||||| |||||

```
Db    1 ATGAAGACAGTTTTTTTATCCTGCTGCTGCCACCTACTTAGCCCTGCGATCCCAGGTGCTGCT 60
        ||||| |||                   |||||||||||||||||||||||||||||
Qy  121 TGCAGCCTGGACCAGCACAGTGCTTTTACATCGGCGGCATCCGGGCCATTGGACTCGTGACA 180

Db  118 CTGCTGTGCTACTCCTGCAAAGCCAGTGAGCAACCAGGACTGCCTGCCAGGTGAGAAC 177
        |||||||   || |||||||||||  |||||||||||||||| ||||  ||||||
Qy  238 GTCATCAGCAAAGGCTGCAGCTTGAACTGCCGTTGACAGCTGCTGATGATGACTTAGTGGGC 297

Db   61 CTGCAGTGCTATTCATGCACAGCACAGATGAACAACAGAGACTGTCTGAATGTACAGAAC 120
        |||| |   ||| ||||||||||||| |||| ||||| ||||||| ||||||
Qy  181 GTTATCAGTAAGGGCTGCAGCTCACAGTGTGAGGATGCTCGGAGAACTACTACTATTTGGGC 240

Db  178 TGCACCCAGTGCTGGGGAGCAGTGCTGCTGACCGCGCGCCATCCGCGCGCAGTTGGCCTCCTGACC 237
        ||||                |||| |||  |||||| ||||||| |||  |||||
Qy  298 AAGAAGAACATCACGTCGTGTGCACAGACTGTGCCACCGACTGTGCAACGCCAGCGGGCCATGCCCTG 357

Db  121 TGCAGCCTGGACCAGCACAGTTGCTTTACATCGCGCATCCGGGCATTGGACTCGTGACA 180
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Qy  358 CAGCCGGCTGCGCCATCCTTGCGTGCTCCCTGACCTGTGCTCTCGGGGACCC 417

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Search completed: September 18, 2004, 19:23:47
Job time : 121.507 secs

RESULT 15
US-09-251-835-3
; Sequence 3, Application US/09251835A
; Patent No. 6261789
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54US12
; CURRENT APPLICATION NUMBER: US/09/251,835A
; CURRENT FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 441
; TYPE: DNA
; ORGANISM: MURINE PSCA (mPSCA)
US-09-251-835-3

Query Match   19.9%; Score 203.2; DB 3; Length 441;
Best Local Similarity   66.4%; Pred. No. 2.4e-41;
Matches   292; Conservative   0; Mismatches 148; Indels   0; Gaps   0;

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                 GenCore version 5.1.6
          Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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Perfect score:   1023
Sequence:        1 CATTTGAGGCCATATAAAGT........ACACCTGTTGGATAAGCCCA 1023

Scoring table:   IDENTITY NUC
                 Gapop 10.0 , Gapext 1.0

Searched:        3327077 seqs, 2523723180 residues

Total number of hits satisfying chosen parameters:       6654154

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

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        19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

                              SUMMARIES
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

Result No.	Score	% Query Match	Length	DB	ID	Description	
1	1023	100.0	1023	11	US-09-080-140-11	Sequence 11,	Appl
2	1023	100.0	1023	11	US-09-080-140-12	Sequence 12,	Appl
3	1010.4	98.8	1028	15	US-10-252-157-273	Sequence 273,	App
4	953.4	93.2	960	9	US-09-909-320-17	Sequence 17,	Appl
5	953.4	93.2	960	9	US-09-909-088B-17	Sequence 17,	Appl
6	953.4	93.2	960	9	US-09-905-291A-17	Sequence 17,	Appl
7	953.4	93.2	960	9	US-09-902-853-17	Sequence 17,	Appl
8	953.4	93.2	960	9	US-09-907-824-17	Sequence 17,	Appl
9	953.4	93.2	960	9	US-09-907-841-17	Sequence 17,	Appl
10	953.4	93.2	960	10	US-09-904-011-17	Sequence 17,	Appl
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14	953.4	93.2	960	10	US-09-907-942-17	Sequence 17,	Appl
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29	953.4	93.2	960	10	US-09-904-462-17	Sequence 17,	Appl
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36	954.4	93.2	960	10	US-09-905-381-17	Sequence 17,	Appl
37	953.4	93.2	960	10	US-09-905-088-17	Sequence 17,	Appl
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                          ALIGNMENTS

RESULT 1
US-09-080-140-11
; Sequence 11, Application US/09080140
; Publication No. US20040018553A1
; GENERAL INFORMATION:
;  APPLICANT: BILLING-MEDEL, PATRICIA
;  APPLICANT: COHEN, MAURICE
;  APPLICANT: COLPITTS, TRACEY L.
;  APPLICANT: FRIEDMAN, PAULA N.
;  APPLICANT: GORDON, JULIAN
;  APPLICANT: GRANADOS, EDWARD N.
;  APPLICANT: HODGES, STEVEN C.
;  APPLICANT: KLASS, MICHAEL R.
;  APPLICANT: KRATOCHVIL, JON D.
;  APPLICANT: ROBERTS-RAPP, LISA
;  APPLICANT: RUSSELL, JOHN C.
;  APPLICANT: STROUPE, STEPHEN D.
;  TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
;  TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
;  NUMBER OF SEQUENCES: 31
;  CORRESPONDENCE ADDRESS:
;    ADDRESSEE: Abbott Laboratories
;    STREET: 100 Abbott Park Road
;    CITY: Abbott Park
;    STATE: IL
;    COUNTRY: USA
;    ZIP: 60064-3500
;  COMPUTER READABLE FORM:
;    MEDIUM TYPE: Diskette
;    COMPUTER: IBM Compatible
;    OPERATING SYSTEM: DOS
;    SOFTWARE: FastSEQ for Windows Version 2.0
;  CURRENT APPLICATION DATA:
;    APPLICATION NUMBER: US/09/080,140
;    FILING DATE:
;    CLASSIFICATION:
;  PRIOR APPLICATION DATA:
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;     APPLICATION NUMBER: 08/856,653
;     FILING DATE:  15-MAY-1997
;     ATTORNEY/AGENT INFORMATION:
;     NAME: Becker, Cheryl L.
;     REGISTRATION NUMBER: 35,441
;     REFERENCE/DOCKET NUMBER: 6105.US.P1
;     TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  847/935-1729
;     TELEFAX:  847/938-2623
;     TELEX:
; INFORMATION FOR SEQ ID NO: 11:
;     SEQUENCE CHARACTERISTICS:
;     LENGTH: 1023 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
US-09-080-140-11

Query Match           100.0%;    Score 1023;  DB 11;  Length 1023;
Best Local Similarity 100.0%;    Pred. No. 1e-267;
Matches 1023;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

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;  GENERAL INFORMATION:
;     APPLICANT: BILLING-MEDEL, PATRICIA
;     APPLICANT: COHEN, MAURICE
;     APPLICANT: COLPITTS, TRACEY L.
;     APPLICANT: FRIEDMAN, PAULA N.
;     APPLICANT: GORDON, JULIAN
;     APPLICANT: GRANADOS, EDWARD N.
;     APPLICANT: HODGES, STEVEN C.
;     APPLICANT: KLASS, MICHAEL R.
;     APPLICANT: KRATOCHVIL, JON D.
;     APPLICANT: ROBERTS-RAPP, LISA
;     APPLICANT: RUSSELL, JOHN C.
;     APPLICANT: STROUPE, STEPHEN D.
;     TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
;     TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
;     NUMBER OF SEQUENCES: 31
;     CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Abbott Laboratories
;     STREET: 100 Abbott Park Road
;     CITY: Abbott Park
;     STATE: IL
;     COUNTRY: USA
;     ZIP: 60064-3500
;     COMPUTER READABLE FORM:
;     MEDIUM TYPE: Diskette
;     COMPUTER: IBM Compatible
;     OPERATING SYSTEM: DOS
;     SOFTWARE: FastSEQ for Windows Version 2.0
;     CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/080,140
;     FILING DATE:
;     CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: 08/856,653
;     FILING DATE: 15-MAY-1997
;     ATTORNEY/AGENT INFORMATION:
;     NAME: Becker, Cheryl L.
;     REGISTRATION NUMBER: 35,441
;     REFERENCE/DOCKET NUMBER: 6105.US.P1
;     TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  847/935-1729
;     TELEFAX:  847/938-2623
;     TELEX:
; INFORMATION FOR SEQ ID NO: 12:
;     SEQUENCE CHARACTERISTICS:
;     LENGTH: 1023 base pairs
;     TYPE: nucleic acid
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; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-080-140-12

Query Match     100.0%;    Score 1023;   DB 11;   Length 1023;
Best Local Similarity   100.0%;   Pred. No. 1e-267;
Matches 1023;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

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Db    1  CATTTGAGGCCATATAAAGTCACCTGAGGCCCTCCCACCACCAGCCACCAGTGACCATG   60

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Qy  121  CTGTGCTACTCCTGCAAAGCCAGTGAGCAACGAGGACTGCCTGCAGTGGAGAACTGC  180
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Db  181  ACCCAGCTGGGGGAGCAGTGCTGGACCGCGCGCATCCGCGCCAGTTGGCCTCCTGACCGTC  240

Qy  241  ATCAGCAAAGGCTGAACTGCGTTGGATGACTCACGTACGTGGGCAAG  300
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Db  361  CCGGGTGCCCGCATCCTTGCGCTCCCCTGCACTCGGCCTGTCTGGGGACCCGGC  420

Qy  421  CAGCTATAGGCTCTGGGGGGCCCCGCTGCAGCCCACTGGGTGTGTGCCCCAGGCCTC  480
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Qy  481  TGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTTCCTGGTTCCTGAGGCACATCC  540
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  481  TGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTTCCTGGTTCCTGAGGCACATCC  540

Qy  541  TAACCGCAAGTCTGACCATGTATGTGTCCCCATCCCTGTGCCCTCCACCCTGACCCTCCCATGGC  600
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  541  TAACCGCAAGTCTGACCATGTATGTGTCCCCATCCCTGTGCCCTCCACCCTGACCCTCCCATGGC  600

Qy  601  CCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGG  660
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  601  CCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCGAGATGG  660

Qy  661  CCCCTCCAACCCTCTCTGCTGTTCCCCAGGAGCCTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT  720
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  661  CCCCTCCAACCCTCTCTGCTGTTCCCCAGGAGCCTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT  720

Qy  721  GCTCAGGCACCTTCTTCCCCCAGGAGGCCTTCCCTGCCCAGCACTCAGGAGGGCACTCAGGAGGCCA  780
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  721  GCTCAGGCACCTTCTTCCCCCAGGAGGCCTTCCCTGCCCAGCACTCAGGAGGGCACTCAGGAGGCCA  780

Qy  781  GGTCGTGTCCGTGGTGTCCCCCGCACCCGGCAGGAGGACACTCAGGAGGGCACTCAGGAGGGCCAGTA  840
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  781  GGTCGTGTCCGTGGTGTCCCCCGCACCCGGCAGGAGGACACTCAGGAGGGCACTCAGGAGGGCCAGTA  840

Qy  841  AAGGCTGAGAGAGATGAAGTGGACTGAGATAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGG  900
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  841  AAGGCTGAGAGAGATGAAGTGGACTGAGATAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGG  900

Qy  901  GAGTCTTCCACTCCACAGACCTGGAGGCCTTCACATTCGTGGG  960
         |||||||||||||||||||||||||||||||||||||||||||
Db  901  GAGTCTTCCACTCCACAGACCTGGAGGCCTTCACATTCGTGGG  960

Qy  961  GCTCCCTGAATGGCAGCCTGAGCGCAGCCTGAGGCCCTTAATAAACACCTGTTGATAAGC  1020
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  961  GCTCCCTGAATGGCAGCCTGAGCGCAGCCTGAGGCCCTTAATAAACACCTGTTGATAAGC  1020

Qy 1021  CCA  1023
         |||
Db 1021  CCA  1023


RESULT 3
US-10-252-157-273
; Sequence 273, Application US/10252157
; Publication No. US20030190640A1
; GENERAL INFORMATION:
; APPLICANT: Faris, Mary
; APPLICANT: Pearson, Cecelia I.
; TITLE OF INVENTION: GENES EXPRESSED IN PROSTATE CANCER
; FILE REFERENCE: PA-0027-1 US
; CURRENT APPLICATION NUMBER: US/10/252,157
; CURRENT FILING DATE:  2002-10-01
; PRIOR APPLICATION NUMBER: 60/295,048
; PRIOR FILING DATE: 2001-05-31
; NUMBER OF SEQ ID NOS: 501
; SOFTWARE: PERL Program
; SEQ ID NO 273
; LENGTH: 1028
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US2003019640A1 239797.3
US-10-252-157-273

Query Match     98.8%;    Score 1010.4;   DB 15;   Length 1028;
Best Local Similarity   99.8%;   Pred. No. 2.7e-264;
Matches 1022;   Conservative   0;   Mismatches   1;   Indels   1;   Gaps   1;

Qy    1  CATTTGAGGCCATATAAAGTCACCTGAGGCCCTCCCACCACCAGCCACCAGTGACCATG   60
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1  CATTTGAGGCCATATAAAGTCACCTGAGGCCCTCCCACCACCAGCCACCAGTGACCATG   60

Qy   61  AAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCGAGCCAGGCACTGCCCTG  120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61  AAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCGAGCCAGGCACTGCCCTG  120

Qy  121  CTGTGCTACTCCTGCAAAGCCAGTGAGCAACGAGGACTGCCTGCAGTGGAGAACTGC  180
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121  CTGTGCTACTCCTGCAAAGCCAGTGAGCAACGAGGACTGCCTGCAGTGGAGAACTGC  180

Qy  181  ACCCAGCTGGGGGAGCAGTGCTGGACCGCGCGCATCCGCGCCAGTTGGCCTCCTGACCGTC  240
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  181  ACCCAGCTGGGGGAGCAGTGCTGGACCGCGCGCATCCGCGCCAGTTGGCCTCCTGACCGTC  240

Qy  241  ATCAGCAAAGGCTGAACTGCGTTGGATGACTCACGTACGTGGGCAAG  300
         |||||||||||||||||||||||||||||||||||||||||||||||
Db  241  ATCAGCAAAGGCTGAACTGCGTTGGATGACTCACGTACGTGGGCAAG  300

Qy  301  AAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGCGGGCCCATGCCCTGCGAG  360
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  301  AAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGCGGGCCCATGCCCTGCAG  360

Qy  361  CCGGCTATAGGGTCGGGGG-CCCGGGG  479
         |||||||||| ||||||||
Db  361  CCGGCTATAGGGTCGGGGGGCCCGGGG  480

Qy  480  CTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTTCCTGGTTCCTGAGGCACATC  539
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  481  CTGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTTCCTGGTTCCTGAGGCACATC  540

Qy  540  CTAACCGCAAGTCTGACCATGTATGTCTGCACCCTGTCCCCGTTCCCCACCCTCCCATGG  599
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  540  CTAACCGCAAGTCTGACCATGTATGTCTGCACCCTGTCCCCGTTCCCCACCCTCCCATGG  599
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Db    541  CTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCATGG  600
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Qy    600  CCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCTGCAGATG  659
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  CCCTCTCCAGGACTCCCACCCGGCAGATCAGTCTAGTGACACAGATCCGCTGCAGATG  660

Qy    660  GCCCCTCCAACCCTCTCTGCTGCTGTTCCATGGCCAGCATTCTCCACCCTTAACCCTG  719
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661  GCCCCTCCAACCCTCTCTGCTGCTGTTCCATGGCCAGCATTCTCCACCCTTAACCCTG  720

Qy    720  TGCTCAGGCACCTTCCCCAGGAAGCTTCCTGCCCACCCATCTATGACTTGAGCC  779
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721  TGCTCAGGCACCTTCCCCAGGAAGCTTCCTGCCCACCCATCTATGACTTGAGCC  780

Qy    780  AGGTCTGGTCCGTGGTGTCCCCGCACCCAGCAGGCACTCAGGGAGGGCCCAGT  839
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781  AGTTCTGTCCGTGGTGTCCCCGCACCCAGCAGGCACTCAGGGAGGGCCCAGT  840

Qy    840  AAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGACAAGAGTCGACGTGAGTTCCTG  899
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841  AAAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGACAAGAGTCGACGTGAGTTCCTG  900

Qy    900  GGAGTCTCCAGAGATGGGGCCTGGAGGGGCCGAGGCCTCACATTCGTGG  959
                ||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901  GGAGTCTCCAGAGATGGGGCCTGGAGGGGCCGAGGCCTCACATTCGTGG  960

Qy    960  GGCTCCCTGAATGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAG  1019
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    961  GGCTCCCTGAATGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAG  1020

Qy    1020 CCCA  1023
                ||||
Db    1021 CCAA  1024
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RESULT 4
US-09-909-320-17
; Sequence 17, Application US/09909320
; Patent No. US2002013224OA1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/909,320
;   CURRENT FILING DATE: 2002-01-04
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22

;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-909-320-17

Query Match   93.2%; Score 953.4; DB 9; Length 960;
Best Local Similarity   99.9%; Pred. No. 7.8e-249;
Matches 954; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   69 GCTGCTTGCCCTGTTGATGGCAGGCTTGCCCTGCAGCCAGCAGCACTGCCCTGCTGTGCTA 128
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GCTGCTTGCCCTGTTGATGGCAGGCTTGCCCTGCAGCCAGCAGCACTGCCCTGCTGTGCTA 60

Qy   129 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCTGCAGGTGAGAACTGCACCCAGCAGT 188
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCTGCAGGTGAGAACTGCACCCAGCT 120

Qy   189 GGGGGAGCAGTGTGGACCGCGGCATCCGCGCCATCCGCGCCAGTTGGCCTCCTGACCGTCAT CAGCAA 248
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGTGGACCGCGGCATCCGCGCCATCCGCGCCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy   249 AGGCTGCAGCTTGAACTGCGTGATGACTCACAGGACATCACAGGACTCACACGTGGGCAAGAAGAAGACAT 308
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTTGAACTGCGTGATGACTCACAGGACATCACAGGACTCACACGTGGGCAAGAAGAAGACAT 240

Qy   309 CACGTGCTGTGACACCGACTTGTGCAACCCAGCGCGGGGCCCATGCCCTGCAGCCGGCGGCTGC 368
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTGCAACCCAGCGCGGGGCCCATGCCCTGCAGCCGGCGGCTGC 300

Qy   369 CGCCATCCTTGCGCTGCTCCTCGCACTGGGACCCGGCACCGGCCAGCTATA 428
               ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTGCGCTGCTCCTCGCACTGGGACCCGGCACCGGCCAGCTATA 360

Qy   429 GGCTTCTGGGGGGCCCCGTCGCAGCCCACACTGGGTGTGTGCCAGCCTCTGTGCCAC 488
               |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTTCTGGGGGGCCCCGTCGCAGCCCACACTGGGTGTGTGCCAGCCTCTGTGCCAC 420

Qy   489 TCCTCACAGACCTTGGCCCAGTGGGAGCCCGTGTCCTGGTTCCTGAGGCACATCCTTAACGCAA 548
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db   421  TCCTCACAGACCTGGCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCTAACGCAA  480

Qy   549  GTCTGACCATGTATGTCTGACACCCTGTCCCCACCCTGACCCCTCCCATGGCCCTCCA  608
              ||||||||||||||||||||||||||||||||||||| |||||||||||||||||
Db   481  GTCTGACCATGTATGTCTGACACCCTGTCCCCCACCCTGACCCCTCCCATGGCCCTCCA  540

Qy   609  GGACTCCACCCGGCAGATCAGTCTTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA  668
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541  GGACTCCACCCGGCAGATCAGTCTTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA  600

Qy   669  ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC  728
              |||||||||||||| |||||||||||||||||||||||||||||||||||||||||
Db   601  ACCCTCTCGTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC  660

Qy   729  ACCTCTTCCCCAGGAAGCCTTCCTGCCACCCCCATCTATGACTTGAGCCAGGTCTGGT  788
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661  ACCTCTTCCCCCAGGAAGCCCTTCCCTGCCACCCCCATCTATGACTTGAGCCAGGTCTGGT  720

Qy   789  CCGTGGTGTCCCCCGCCACCCAGCAGGGGACTCAGGAGGCCCCAGTAAAGGCTGA  848
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721  CCGTGGTGTCCCCCGCCACCCAGCAGGGGACTCAGGAGGCCCCAGTAAAGGCTGA  780

Qy   849  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  908
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781  GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC  840

Qy   909  AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCTG  968
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841  AGAGATGGGGCCTGGAGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCTG  900

Qy   969  AATGGCAGCCTGAGCACAGCCAGCGGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA  1023
              |||||||||||||||||||||||||||||||||||||||||||||||
Db   901  AATGGCAGCCTGAGCACAGCCAGCGGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA  955
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RESULT 5
US-09-909-088B-17

; Sequence 17, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-088B-17

Query Match   93.2%;
Best Local Similarity   99.9%;   Score 953.4; DB 9; Length 960;
Matches 954; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy   69  GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCCCTGCTGTGCTA  128
             |||||||||||||||||||||||||||||||||||||||||||||||
Db    1  GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCCCTGCTGTGCTA  60

Qy  129  CTTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTCAGTGGAGAACTGCACCCAGCT  188
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61  CTTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTCAGTGGAGAACTGCACCCAGCT  120

Qy  189  GGGGAGCAGTGCTGACGCGCGCATCCGGCGCATCCGGCGCATCCGGCGCATCCGGCGCATCAGCAA  248
             |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121  GGGGAGCAGTGCTGACGCGCGCATCCGGCGCATCCGGCGCATCCGGCGCATCAGCAA  180

Qy  249  AGGCTGCAGCTTGAACTGCGTGGATGACTGCAGGACTACACAGGACTGGGCAAGAGAACAT  308
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  181  AGGCTGCAGCTTGAACTGCGTGGATGACTGCAGGACTACACAGGACTGGGCAAGAGAACAT  240

Qy  309  CACGTGCTGTGCACACGACTTGTGCACAGCCAGGCGGCGCATGCCCTGCAGCCGGCGGCTGC  368
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241  CACGTGCTGTGCACACGACTTGTGCACAGCCAGGCGGCCATGCCCTGCAGCCGGCGGCTGC  300

Qy  369  CGCCATCCTTGCGCTCCTGCACTCGGCGCTCTCGGCCGCACTGGGTGCGCGTGGTGTGCCAC  428
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  301  CGCCATCCTTGCGCTCCTGCACTCGGCGCTCTCGGCCGCACTGGGTGTGCGTGGTGTGCCAC  360

Qy  429  GGCTCTGGGGGGCCCCGCCGCCCACTGGGTGCCCCAGGCCTCTGTGCCAC  488
             |||||||||||||||||||||||||||||||||||||||||||||||||
Db  361  GGCTCTGGGGGGCCCCGCCGCCCACTGGGTGTGCCCCAGGCCTCTGTGCCAC  420

Qy  489  TCCTCACAGACCTGGCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA  548
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  421  TCCTCACAGACCTGGCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA  480
```

```
Qy   549 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCCTCCCATGGCCCTCTCCA 608
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCCTCCCATGGCCCTCTCCA 540

Qy   609 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 668
         ||||||||||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 600

Qy   669 ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 728
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 ACCCTCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGC 660

Qy   729 ACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 788
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 ACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy   789 CCGTGGTGTCCCCCGCCACCCAGCAGGGACACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 CCGTGGTGTCCCCCGCCACCCAGCAGGGACACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy   849 GATGAAGTGGACTGAGTAGAACTGGAGGAGCAACAGAGTGCGACGTGAGTTCCTGGGAGTCC 908
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GATGAAGTGGACTGAGTAGAACTGGAGGAGCAACAGAGTGCGACGTGAGTTCCTGGGAGTCC 840

Qy   909 AGAGATGGGGCCTGGAGGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCTG 968
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AGAGATGGGGCCTGGAGGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCTG 900

Qy   969 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-905-291A-17

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Query Match             93.2%;
Best Local Similarity   99.9%;
Matches  954;    Conservative    0;    Mismatches    1;
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Score 953.4; DB 9; Length 960;
Pred. No. 7.8e-249;
Indels   0;   Gaps   0;

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Qy    69 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 128
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Db     1 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA 60

Qy   129 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy   189 GGGGAGCAGTGCTGGACCGCGCATCCGCAGTTGGCCTCCTGACCGTCATCAGCAA 248
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGAGCAGTGCTGGACCGCGCATCCGCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy   249 AGGCTGCAGTTGAACTGCTGGATGACTCACAGGACTACGTGGGCAAGAAGAGAACAT 308
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGTTGAACTGCTGGATGACTCACAGGACTACGTGGGCAAGAAGAGAACAT 240

Qy   309 CACGTGCTGTGACACCGACTTGTGCAAGCCAGTGGGCCATGCCCTGCAGCCCGGCTGC 368
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTGCAAGCCAGTGGGCCATGCCCTGCAGCCCGGCTGC 300

Qy   369 CGCCATCCTTGCCCTGCTCCTGCCACTGGGCTGTCTCGGGGGACCCGGCCAGCTATA 428
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTGCCCTGCTCCTGCCACTGGGCTGTCTCGGGGGACCCGGCCAGCTATA 360

Qy   429 GGCTCTGGGGGCCCCGTCGCAGCCACACTGGGTGTGTGCCCAGGCCTCTGTGCCAC 488
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTCTGGGGGCCCCGTCGCAGCCACACTGGGTGTGTGCCCAGGCCTCTGTGCCAC 420

Qy   489 TCCTCACAGACCTGGCCCAGTGGAGCCTGTCCTGAGGCACATCCTAACGCAA 548
         ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCACAGACCTGGCCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 480
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RESULT 6
US-09-905-291A-17
; Sequence 17, Application US/09905291A
; Patent No. US2002016037A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07

Qy   549 GTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCCTCCCATGGCCCTCTCCA 608
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCATGGCCCTCTCCA 540

Qy   609 GGACTCCCACCCGGCCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 668
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 GGACTCCCACCCGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 600

Qy   669 ACCCTCTCTGCTGCTGTTCCATGGCCCAGCATTCTCCACCCTTAACCTGTGTCAGGC 728
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 ACCCTCTCTGCTGTGTTCCATGGCCCAGCATTCTCCACCCTTAACCTGTGTCAGGC 660

Qy   729 ACCTCTTCCCCAGGAAGCCTTCCCTGCCCCATCTATGACTTGAGCCAGGTCTGGT 788
           ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 ACCTCTTCCCCAGGAAGCCTTCCCTGCCCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy   789 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCCACTCAGGAGGCCCAGTAAAGGCTGA 848
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy   849 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 908
           |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy   909 AGAGATGGGGCCTGGAGGCCTGGAGGAAAGGGGCCAGGCCTCACATTCGTTGGGGCTCCCTG 968
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AGAGATGGGGCCTGGAGGCCTGGAGGAAAGGGGCCAGGCCTCACATTCGTTGGGGCTCCCTG 900

Qy   969 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGGCCCA 1023
           |||||||||||||||||||||||||||||||||||||||||||||||||
Db   901 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGGCCAA 955

RESULT 7
US-09-902-853-17
; Sequence 17, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-902-853-17

Query Match   93.2%; Score 953.4; DB 9; Length 960;
Best Local Similarity   99.9%; Pred. No. 7.8e-249;
Matches 954; Conservative   0; Mismatches   0; Indels   1; Gaps   0;

Qy   69 GCTGCTTGCCCGTTGATGGCAGGCTTGGCCTGCCTGCGAGCCACTGCCCTGTGCTGTGCTA 128
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 GCTGCTTGCCCGTTGATGGCAGGCTTGGCCTGCCTGCGAGCCACTGCCCTGTGCTGTGCTA   60

Qy   129 CTCCTGCAAAGCCCAGGTGAGCAACGAGAACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTCCTGCAAAGCCCAGGTGAGCAACGAGAACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy   189 GGGGGAGCAGTGCTGACCGCGGCATCCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA 248
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGCTGACCGCGGCATCCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy   249 AGGCTGCAGCTTGAACTGCGTGATGACTCACAGGACTACGTGGGCAAGAAGAGAACAT 308
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTTGAACTGCGTGATGACTCACAGGACTACGTGGGCAAGAAGAGAACAT 240

Qy   309 CACGTGCTGTGACACCGACTTGTGCAACGACTTGTGCAACGACTTGTCAAGCCCAGCGGGCCAGCCGGCTGC 368
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTGCAACGACTTGTGCAACGACTTGTCAAGCCCAGCCGGCTGC 300

Qy   369 CGCCATCCTTGCGCTGCTCCCTGCACTCGGGCTCCTGCACTCGGGTGCCCAGCCTGCTGGCCAGCTATA 428
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTGCGCTGCTCCCTGCACTCGGGCTCCTGCACTCGGGTGCCCAGCCTGCTGGCCAGCTATA 360

Qy   429 GGCTCTTGGGGCCCCGCTGCAGCCCACACTGGGTGTCGGCCCCAGGCCTCTGTGCCCAC 488
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTCTTGGGGCCCCGCTGCAGCCCACACTGGGTGTGGCCCCAGGCCTCTGTGCCCAC 420

Qy   489 TCCTCACAGACTGGCCCAGTGGAGGCCGTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 548
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCACAGACCTGGCCCAGTGGAGGCCGTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 480

Qy   549 GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCCATGGCCCTCTCCA 608

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Db        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
      481 GTCTGACCATGTATGTCTGCACCCTGTCCCCACCCTGACCCTCCCATGGCCCTCCCA 540

Qy    609 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 668
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541 GGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 600

Qy    669 ACCCTCTCGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTCTGCTCAGGC 728
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601 ACCCTCTCGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTCTGCTCAGGC 660

Qy    729 ACCTCTTCCCCAGGAAGGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 788
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661 ACCTCTTCCCCAGGAAGGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy    789 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy    849 GATGAAGTGGACTGAGTGAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 908
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781 GATGAAGTGGACTGAGTGAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy    909 AGAGATGGGGCCTGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCCTCCTG 968
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841 AGAGATGGGGCCTGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCCTCCCTG 900

Qy    969 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
          |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 8
US-09-907-824-17
; Sequence 17, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07

; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-907-824-17

Query Match   93.2%; Score 953.4; DB 9; Length 960;
Best Local Similarity   99.9%; Pred. No. 7.8e-249;
Matches 954; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    69 GCTGCTTGCCCGTTGATGGCAGGCTTGGCCCTGCAGCCGGCAGGACTGCACCCAGCT 128
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1 GCTGCTTGCCCGTTGATGGCAGGCTTGGCCCTGCAGCCGGCAGGACTGCACCCAGCT 60

Qy   129 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy   189 GGGGAGCAGTGCTGACCGGCATCCGCAGTTGCCTCCTGACGTTGCCTCCTGACGTCATCAGCAA 248
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGAGCAGTGCTGACCGGCATCCGCAGTTGCCTCCTGACGTTGCCTCCTGACGTCATCAGCAA 180

Qy   249 AGGTGCAGCTTGAACTGCGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 308
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGTGCAGCTTGAACTGCGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 240

Qy   309 CACGGCTGCTGCGACACCGACTTGTGCAAGCCACGGCTGCTGCGACACCGACTTGTGCAAGCCACGGCTGC 368
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGGCTGCTGCGACACCGACTTGTGCAAGCCACGGCTGCTGCGACACCGACTTGTGCAAGCCACGGCTGC 300

Qy   369 CGCCATCCTTGCGCTGGCTCCCTGCACTCGGCGCTCCTGCTCCTGCGCCTGGGGGACCCGGCCCAGCTATA 428
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTGCGCTGGCTCCCTGCACTCGGCGCTCCTGCTCCTGCGCCTGGGGGACCCGGCCCAGCTATA 360

Qy   429 GGCTCTGGGGGGCCCCGCCGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTCTGTGCCAC 488
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTCTGGGGGGCCCCGCCGCTGCAGCCCACACTGGGTGTGGTGCCCCAGGCCTCTGTGCCAC 420

Qy   489 TCCTCACAGACCTGGCCCAGTGGAGAGCCTGTCCTGGAGGCACATCCTAACGCAA 548
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCACAGACCTGGCCCAGTGGAGAGCCTGTCCTGGAGGCACATCCTAACGCAA 480
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;       PRIOR FILING DATE: 1999-07-26
;       PRIOR APPLICATION NUMBER: US 60/146,222
;       PRIOR FILING DATE: 1999-07-28
;       PRIOR APPLICATION NUMBER: PCT/US99/20594
;       PRIOR FILING DATE: 1999-09-08
;       PRIOR APPLICATION NUMBER: PCT/US99/20944
;       PRIOR FILING DATE: 1999-09-13
;       PRIOR APPLICATION NUMBER: PCT/US99/21090
;       PRIOR FILING DATE: 1999-09-15
;       PRIOR APPLICATION NUMBER: PCT/US99/21547
;       PRIOR FILING DATE: 1999-09-15
;       PRIOR APPLICATION NUMBER: PCT/US99/23089
;       PRIOR FILING DATE: 1999-10-05
;       PRIOR APPLICATION NUMBER: PCT/US99/28214
;       PRIOR FILING DATE: 1999-11-29
;       Remaining Prior Application data removed - See File Wrapper or PALM.
;       NUMBER OF SEQ ID NOS: 423
;  SEQ ID NO 17
;       LENGTH: 960
;       TYPE: DNA
;       ORGANISM: Homo sapiens
US-09-907-841-17

  Query Match             93.2%;  Score 953.4;  DB 9;  Length 960;
  Best Local Similarity   99.9%;  Pred. No. 7.8e-249;
  Matches  954;  Conservative    0;  Mismatches    0;  Indels    1;  Gaps    0;

Qy          69 GCTGCTTGCCCTGTTGATGGAGGCTTGGCCCTGCAGCCACTGCCCTGCTGTGCTA 128
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db           1 GCTGCTTGCCCTGTTGATGGAGGCTTGGCCCTGCAGCCACTGCCCTGCTGTGCTA 60

Qy         129 CTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          61 CTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy         189 GGGGGAGCAGTGCAGTGACCGCATCCGGCGACGTGGCCTCCTGACCGTCATCAGCAA 248
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         121 GGGGGAGCAGTGCAGTGACCGCATCCGGCGACGTGGCCTCCTGACCGTCATCAGCAA 180

Qy         249 AGGCTGCAGCTTGAACTGCTGGATGACTCACAAGAGACTCACAGGAGAAGAGAACAT 308
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 AGGCTGCAGCTTGAACTGCTGGATGACTCACAAGAGACTCACAGGAGAAGAGAACAT 240

Qy         309 CACGTGCTGTGACACCGACTTGTGCAACGGCGGGCCCATGCCAGCGGGCGGCTGC 368
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         241 CACGTGCTGTGACACCGACTTGTGCAACGGCGGGCCCATGCCAGCGGGCGGCTGC 300

Qy         369 CGCCATCCTTGCGCTGCTCCCTGCACTCGGCTGGCGCTGCTCGCTGCGCCAGCTATA 428
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         301 CGCCATCCTTGCGCTGCTCCCTGCACTCGGCTGGCGCTGCTCGCTGCGCCAGCTATA 360

Qy         429 GGCTCTGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCGCCACTCTGTGCCAC 488
               ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         361 GGCTCTGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCGCCACTCTGTGCCAC 420

Qy         489 TCCTCACAGACAGCTGGCCAGTGGGAGCCCTGTCCTGTTCCTGAGCCACATCCTAACGCAA 548
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         421 TCCTCACAGACAGCTGGCCAGTGGGAGCCCTGTCCTGTTCCTGAGCCACATCCTAACGCAA 480

Qy         549 GTCTGACCATGTATGTCTGACCCTGTCCCCACCCTGACCCTTCCCATGGCCCTCTCCA 608
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         481 GTCTGACCATGTATGTCTGACCCTGTCCCCACCCTGACCCTTCCCATGGCCCTCTCCA 540

Qy         609 GGACTCCACCCGGCAGATCAGCTCTCAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 668
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         541 GGACTCCACCCGGCAGATCAGCTCTCAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 600

Qy         669 ACCCTCTCGCTGCTGTTCCATGGCCCAGCATTCTCCACCCTGTGCTCAGGC 728
               |||||||||||||||||||||||||||||||||||||||||||||||||||
Db         601 ACCCTCTCGCTGCTGTTCCATGGCCCAGCATTCTCCACCCTGTGCTCAGGC 660

Qy         729 ACCTCTTCCCCAGGAAGCCTTCCGCCCACCCATCTATGACTTGAGCCAGTCTGGT 788
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         661 ACCTCTTCCCCAGGAAGCCTTCCGCCCACCCATCTATGACTTGAGCCAGTCTGGT 720

Qy         789 CCGTGGTGTCCCCGCACCCAGCAGGGCACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         721 CCGTGGTGTCCCCGCACCCAGCAGGGCACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy         849 GATGAAGTGGAACTGAGTGAGTAGAACTGAGGACAAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 908
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         781 GATGAAGTGGAACTGAGTGAGTAGAACTGAGGACAAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy         909 AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCCAGGCCCTCACATTCGTTGGGGCTCCCTG 968
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         841 AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCCAGGCCCTCACATTCGTTGGGGCTCCCTG 900

Qy         969 AATGGCAGCCTGAGCACAGCAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         901 AATGGCAGCCTGAGCACAGCAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 9
US-09-907-841-17
; Sequence 17, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698

Db   661 ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy   789 CCGTGGTGTCCCCCGCACCCAGCACAGGGACCAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
      |||||||||||||||||||||||||||||||||||||||||||
Db   721 CCGTGGTGTCCCCCGCACCCAGCACAGGGACCAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy   849 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 908
      |||||||||||||||||||||||||||||||||||||||||||
Db   781 GATGAAGTGGACTGAGTAGAACTGCGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy   909 AGAGAGTGGGGCCTGGAGGCCTGGAGGAGGGGCCAGGCCTCACATTCGTGTGGGGCTCCCTG 968
      |||||||||||||||||||||||||||||||||||||||||||
Db   841 AGAGAGTGGGGCCTGGAGGCCTGGAGGAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy   969 AATGGCAGCCTGAGCACAGCGTAGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
      |||||||||||||||||||||||||||||||||||||||||||
Db   901 AATGGCAGCCTGAGCACAGCGTAGCCCCTTAATAAACACCTGTTGGATAAGCCAA 955

RESULT 10
US-09-904-011-17
; Sequence 17, Application US/0990401l
; Publication No. US2003000353OA1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-904-011-17

Query Match   93.2%;   Score 953.4;   DB 10;   Length 960;
Best Local Similarity   99.9%;   Pred. No. 7.8e-249;
Matches 954; Conservative   0;   Mismatches   0;   Indels   1;   Gaps   0;

Qy   69 GCTGCTGCCCTGTTGATGGCAGGTTGGCCTGCAGCCAGGCACTGCCTGCGTGTGTCTA 128
      ||||||||||||||||||||||||||||||||||||||||||||
Db   1 GCTGCTGCCCTGTTGATGGCAGGTTGGCCTGCAGCCAGGCACTGCCTGCGTGTGTCTA 60

Qy   129 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGAGGACTGCACCCAGCT 188
      ||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGAGGACTGCACCCAGCT 120

Qy   189 GGGGGAGCAGTGCTGGACCCGCGCCATCCGCGCCAGTTGGCCTCCTGACCGTCATCAGCAA 248
      ||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGCTGGACCCGCGCCATCCGCGCCAGTTGGCCTCCTGACCGTCATCAGCAA 180

Qy   249 AGGCTGCAGCTTGAACTGCCTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 308
      ||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTTGAACTGCCTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 240

Qy   309 CACGTGCTTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGCTGC 368
      ||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAGCCGGCTGC 300

Qy   369 CGCCATCCTTGCGCTGCCTCCCTGCCACTCGGCCTCCTGGGGACCCCGGCCAGCTATA 428
      ||||||||||||||||||||||||||||||||||||||||||||
Db   301 CGCCATCCTTGCGCTGCCTCCCTGCCACTCGGCCTCCTGGGGACCCCGGCCAGCTATA 360

Qy   429 GGCTCTGGGGGCCCCGCTGCAGCCCACACTGGGTGTGTGCCCCAGGCCTTCTGTGCCAC 488
      ||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTCTGGGGGCCCCGCTGCAGCCCACACTGGGTGTGTGCCCCAGGCCTTCTGTGCCAC 420

Qy   489 TCCTCACAGACCTGCCCAGTGGGAGCCCGTGTCCGTTCCTGAGGCACATCCTAACGCAA 548
      ||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCACAGACCTGCCCAGTGGGAGCCCGTGTCCGTTCCTGAGGCACATCCTAACGCAA 480

Qy   549 GTCTGACCATGTATGTCTGCACCCCTGTCCCACCCTGACCCTCCCACCTCCA 608
      ||||||||||||||||||||||||||||||||||||||||||||
Db   481 GTCTGACCATGTATGTCTGCACCCCTGTCCCACCCTGACCCTCCCACCTCCA 540

Qy   609 GGACTCCCACCCGGCAGATCAGTCTCAGTGACACAGATCCGCCTGCAGATGGCCCTCCA 668
      ||||||||||||||||||||||||||||||||||||||||||||
Db   541 GGACTCCCACCCGGCAGATCAGTCTCAGTGACACAGATCCGCCTGCAGATGGCCCCTCCA 600

Qy   669 ACCCTCTGCTGTTTCCATGGCCCAGCATTCTCACCCTTAACCCTGTGTCTCAGGC 728
      ||||||||||||||||||||||||||||||||||||||||||||
Db   601 ACCCTCTGCTGTTTCCATGGCCCAGCATTCTCACCCTTAACCCTGTGTCTCAGGC 660

Qy   729 ACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 788

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Db   661 ACCTCTTCCCCCAGGAAGCCTTCCCTGCCCACCCATCTATGACTTGAGCAGGTCTGGT 720
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

     789 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGAGGGGCCCAGTAAAGGCTGA 848
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGAGGGGCCCAGTAAAGGCTGA 780

Qy   849 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTGCACGTGAGTTCCTGGGAGTCTCC 908
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTGCACGTGAGTTCCTGGGAGTCTCC 840

Qy   909 AGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 968
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy   969 AATGGCAGCCTGAGCACAGCGTAGGCGTAGGCCCTTAATAAAACACCTGTTGGATAAGCCCA 1023
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901 AATGGCAGCCTGAGCACAGCGTAGGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 11
US-09-906-742-17
; Sequence 17, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,742
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-03-906-742-17

Query Match   93.2%;   Score 953.4; DB 10; Length 960;
Best Local Similarity 99.9%;   Pred. No. 7.8e-249;
Matches   954; Mismatches   0; Conservative   0; Indels   0; Gaps   0;

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Qy    69 GCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCCTGTGCTA 128
            ||||||||||||||||||||||||||| ||||||||||||||||||||||||||||||||
Db     1 GTTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCCTGTGCTA 60

Qy   129 CTTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 188
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 CTTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy   189 GGGGGAGCAGTGCTGACACCGCGACCGCGCAGTGGCCTCCGACCGTCATCAGCAA 248
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 GGGGGAGCAGTGCTGACACCGCGACCGCGCAGTGGCCTCCGACCGTCATCAGCAA 180

Qy   249 AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACACGTGGGCAAGAAGAACAT 308
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACACGTGGGCAAGAAGAACAT 240

Qy   309 CACGTGCTGTGACACCGACTTGTCAACGCCAGCGGGGCCATGCCCTGCAGCCGGCTGC 368
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 CACGTGCTGTGACACCGACTTGTCAACGCCAGCGGGGCCATGCCCTGCAGCCGGCTGC 300

Qy   369 CGGCCATCCTGCCGTGCTCCCTGCACTCGGGGACCCGCTGCCCAGCTATA 428
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Db   301 CGGCCATCCTGCCGTGCTCCCTGCACTCGGGGACCCGCTGCCCAGCTATA 360

Qy   429 GGCTCTGGGGGGGGCCCCGTCAGCCCACACTGGGTGTGGTGCCCAGCCTCTGTGCCAC 488
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 GGCTCTGGGGGGGGCCCCGTCAGCCCACACTGGGTGTGGTGCCCAGCCTCTGTGCCAC 420

Qy   489 TCCTCACAGACCTGGCCCAGTGGAGCCTGTCGTCCTGGTTCCTGAGGCACATCATTAACGCAA 548
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 TCCTCACAGACCTGGCCCAGTGGAGCCTGTCGTCCTGGTTCCTGAGGCACATCATTAACGCAA 480

Qy   549 GTCTGACCATGTATGTCGCACCCCTGACCCCTGACCCTGACACCGATCCGCTGCAGATGGCCCTCCA 608
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 GTCTGACCATGTATGTCGCACCCCTGACCCCTGACCCTGACACCGATCCGCTGCAGATGGCCCTCCA 540

Qy   609 GGACTCCACCCGGCAGATCAGCTCAGTGACAGATCCGCTGCGATGGCCCCTCCA 668
            |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541 GGACTCCACCCGGCAGATCAGCTCAGTGACAGATCCGCTGCGATGGCCCCTCCA 600

Qy   669 ACCCTCTTGCTGCTGTTTCCATGGCCCAGCAATTCTCACCCCTTAACCCTGTGCTGCAGGC 728
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601 ACCCTCTTGCTGCTGTTTCCATGGCCCAGCAATTCTCACCCCTTAACCCTGTGCTGCAGGC 660
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Qy  729 ACCTCTTCCCCAGGAAGCCTTCCTGCCACCCCATCTATGACTTGAGCCAGGTTGGT 788
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  661 ACCTCTTCCCCAGGAAGCCTTCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy  789 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  721 CCGTGGTGTCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy  849 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCCACGTGAGTTCCTGGGAGTCTCC 908
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  781 GATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy  909 AGAGATGGGGCCCTGGAGGCCTGGAGGAAGGGGGCCAGCCTCACATTCGTGGGGCTCCCTG 968
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  841 AGAGATGGGGCCGCTGGAGGCCTGGAGGAAGGGGGCCAGCCTCACATTCGTGGGGCTCCCTG 900

Qy  969 AATGGCAGCCTGAGCACAGCGTAGGCCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  901 AATGGCAGCCTGAGCACAGCGTAGGCCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 12
US-09-906-838-17
; Sequence 17, Application US/09906838
; Publication No. US20030027143A1
; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,838
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-906-838-17

Query Match   93.2%; Score 953.4; DB 10; Length 960;
Best Local Similarity   99.9%; Pred. No. 7.8e-249;
Matches 954; Conservative   0; Mismatches   0; Indels   1; Gaps   0;

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Qy   69 GCTGCTTGCCCTGTCGATGGCAGGCTTGGCCTGCCAGGCACTGCCCTGCCGTGCTGCTA 128
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Db    1 GCTGCTTGCCCTGTCGATGGCAGGCTTGGCCTGCCAGGCACTGCCCTGCCGTGCTGCTA 60

Qy  129 CTCCTGCAAAGCCCAGGTGAGCAACGAGACGAGGACACTGCCTGCAGGTGGAGAACTGACCCAGCT 188
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTCCTGCAAAGCCCAGGTGAGCAACGAGACGAGGACACTGCCTGCAGGTGGAGAACTGAGCCAGCT 120

Qy  189 GGGGAGCAGTGCTGTGGACCCGCATCCGCGCAGTTGGCCTCCTGACCGTCATCATCAGCAA 248
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121 GGGGAGCAGTGCTGTGGACCCGCATCCGCGCAGTTGGCCTCCTGACCGTCATCATCAGCAA 180

Qy  249 AGGCTGCAGTTGAACTGCTGGATGACTCACAGGACTACACGTGGGAAGAGAACAT 308
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Db  181 AGGCTGCAGTTGAACTGCTGGATGACTCACAGGACTACACGTGGGAAGAGAACAT 240

Qy  309 CACGTGCTGTGACACCGACTTGTGCAACGGCCCCATGGCCTGCAGCCGGCCGGCTGC 368
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Db  241 CACGTGCTGTGACACCGACTTGTGCAACGGCCCCATGGCCTGCAGCCGGCCGGCTGC 300

Qy  369 CGCCATCCTTGCGCTGCCTCCCTGGCACTCGGCCTGCTCGGGGACCCGGCCAGCGTATA 428
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Db  301 CGCCATCCTTGCGCTGCCTCCCTGGCACTCGGCCTGCTCGGGGACCCGGCCAGCTATA 360

Qy  429 GGGCTCTGGGGGGCCCCGCTGCAGCCCACTGGGTGGTGTCCGTGGGTGTGCCCCAGGCCTCTGTGCCAC 488
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  361 GGGCTCTGGGGGGCCCCGCTGCAGCCCACTGGGTGGTGTCCGTGGGTGTGCCCCAGGCCTCTGTGCCAC 420

Qy  489 TCCTCACAGACCTGCCCAGTGGGAGCTGTCCTGGTTCCTGGAGGCACATCCTAACGCAA 548
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Db  421 TCCTCACAGACCTGCCCAGTGGGAGCTGTCCTGGTTCCTGGAGGCACATCCTAACGCAA 480

Qy  549 GTCTGACCATGTATGTCTGCACCCCGTCCCCAGCTCCTCCA 608
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Db  481 GTCTGACCATGTATGTCTGCACCCCGTCCCCAGCTCCTCCA 540

Qy  609 GGACTCCCACCCGGCAGATCCAGTCTAGTGACACAGATCCGCCTGCGATGGCCCCTCCA 668
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  541 GGACTCCCACCCGGCAGATCCAGTCTAGTGACACAGATCCGCCTGCGATGGCCCCTCCA 600

Qy  669 ACCCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCACCCTTAACCCTTAACCCTGTGCTGTCAGGC 728
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Db  601 ACCCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCACCCTTAACCCTTAACCCTGTGCTGTCAGGC 660
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Qy   729  ACCTCTTCCCCCAGGAAGGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  788
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Db   661  ACCTCTTCCCCCAGGAAGGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  720

Qy   789  CCGTGGTGTCCCCGCACCCAGCAGGGGACAGCACTCAGGAGGGCCAGTAAAGGCTGA     848
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Db   721  CCGTGGTGTCCCCGCACCCAGCAGGGGACAGCACTCAGGAGGGCCAGTAAAGGCTGA     780

Qy   849  GATGAAGTGGACTGAGTAGAACTGAGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC    908
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781  GATGAAGTGGACTGAGTAGAACTGAGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC    840

Qy   909  AGAGATGCGGGCCTGGAGGGCCAGGCCCTCACATTCGTGGGGCTCCCTG            968
          |||||||||||||||||||||||||||||||||||||||||||||||||
Db   841  AGAGATGGGGCCTGGAGGGCCAGGCCCTCACATTCGTGGGGCTCCCTG            900

Qy   969  AATGGCAGCCTGAGCACAGCAGGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA   1023
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Db   901  AATGGCAGCCTGAGCACAGCAGGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA    955
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RESULT 13
US-09-907-613-17

; Sequence 17, Application US/09907613
; Publication No. US20030027145A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,613
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-613-17

Query Match   93.2%;   Score 953.4; DB 10;   Length 960;
Best Local Similarity 99.9%;   Pred. No. 7.8e-249;
Matches   954;   Conservative   0; Mismatches   1; Indels   0;   Gaps   0;

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Qy    69  GCTGCTTGCCCTGTTGATGGCAGGTTGGCCCTGCGAGCCACTGCCCTGCTGTGCTA    128
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Db     1  GCTGCTTGCCCTGTTGATGGCAGGTTGGCCCTGCGAGCCACTGCCCTGCTGTGCTA     60

Qy   129  CTCCTGCAAAGCCAGGTGAGCAAGAGACTGCCTGCGCAGTGGAGAACTGCACCCAGCT   188
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61  CTCCTGCAAAGCCAGGTGAGCAACGAGACTGCCTGCAGTGGAGAACTGCACCCAGCT    120

Qy   189  GGGGGAGCAGTGCTGACCGGCGCATCCGCGGTGGCCTCCTGACCGTCATCAGCAA    248
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121  GGGGGAGCAGTGCTGACCGGCGCATCCGCGGTGGCCTCCTGACCGTCATCAGCAA    180

Qy   249  AGGCTGCAGCTTGAACTGCTGTGGATGACTCACAAGGACTACTACGTGGGCAAGAGAACAT   308
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181  AGGCTGCAGCTTGAACTGCTGTGGATGACTCACAAGGACTACTACGTGGGCAAGAGAACAT   240

Qy   309  CACGTGCTGTGACACCGACTTGTCAAGCGCCAGCGGGGCCCATGCCCTGCGACCGGCTGC    368
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Db   241  CACGTGCTGTGACACCGACTTGTCAAGCGCCAGCGGGGCCCATGCCCTGCGACCGGCTGC    300

Qy   369  CGCCATCCTTGCGCTGCTCCCTGCACTCGGCTCGGCACTCGGCTCGGCGACCCGGCCAGCTATA   428
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301  CGCCATCCTTGCGCTGCTCCCTGCACTCGGCTCGGCACTCGGCTCGGCGACCCGGCCAGCTATA   360

Qy   429  GGCTCTGGGGGCCCCCGCTCGAGCCCACACTGGGTGTGCCCAGGCCTCTGTGCCAC    488
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361  GGCTCTGGGGGCCCCCGCTCGAGCCCACACTGGGTGTGCCCAGGCCTCTGTGCCAC    420

Qy   489  TCCTCACAGACCTGGCCACGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA   548
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421  TCCTCACAGACCTGGCCACGTGGGAGCCTGTCCTGGTTCCTGAGGCACACATCCTAACGCAA  480

Qy   549  GTCTGACCATGTATGTCTGCACACCCTGTCCCCCACCCTGTCCCCCACCCTCCTCCA    608
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481  GTCTGACCATGTATGTCTGCACACCCTGTCCCCCACCCTGTCCCCCACCCTCCTCCA    540

Qy   609  GGACTCCACCCGGCAGAGATCAGCTCTAGTGACACAGATCCGCTGACACAGATCCGCTCCA   668
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541  GGACTCCACCCGGCAGAGATCAGCTCTAGTGACACAGATCCGCTGACACAGATCCGCTCCA   600

Qy   669  ACCCTCTTGCTCGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTTCAGGC        728
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601  ACCCTCTTGCTCGTTCCATGGCCCAGCATTCTCCACCCTTAACCCTTCAGGC        660
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Qy   729  ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  788
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661  ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  720

Qy   789  CCGTGGTGTCCCCGCACCCAGCAGGGACACAGGGACACTCAGGAGGGCCCAGTAAAGGCTGA  848
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721  CCGTGGTGTCCCCGCACCCAGCAGGGACACAGGGACACTCAGGAGGGCCCAGTAAAGGCTGA  780

Qy   849  GATGAAGTGGACTGAGTAGAACAAGAGTGACGTGAGTTCCTGGGAGTCTCC  908
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781  GATGAAGTGGACTGAGTAGAACAAGAGTGACGTGAGTTCCTGGGAGTCTCC  840

Qy   909  AGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  968
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Db   841  AGAGATGGGGCCTGGAGGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG  900

Qy   969  AATGGCAGCCTGAGCACACAGCCGTAGCCCTTAATAAACACCCTGTTGGATAAGCCCA  1023
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901  AATGGCAGCCTGAGCACACAGCCGTAGCCCTTAATAAACACCCTGTTGGATAAGCCAA  955
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RESULT 14
US-09-907-942-17
; Sequence 17, Application US/09907942
; Publication No. US20030027146A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,942
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-942-17

Query Match   93.2%; Score 953.4; DB 10; Length 960;
Best Local Similarity   99.9%; Pred. No. 7.8e-249;
Matches 954; Conservative 0; Mismatches 0; Indels 1; Gaps 0;

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Qy    69  GCTGCTTGCCCGTTGATGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA  128
          |||||||||||||||||||| |||||||||||||||||||||||||||||||||||||
Db     1  GCTGCTTGCCCGTTGATGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCTA  60

Qy   129  CTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGTGGAGAACTGCACCCAGCT  188
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61  CTCCTGCAAAGCCCAGTGAGCAACGAGGACTGCCTGCAGTGGAGAACTGCACCCAGCT  120

Qy   189  GGGGGAGCAGTGCTGGACCGCGCATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA  248
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121  GGGGGAGCAGTGCTGGACCGCGCATCCGCGCAGTTGGCCTCCTGACCGTCATCAGCAA  180

Qy   249  AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  308
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Db   181  AGGCTGCAGCTTGAACTGCTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT  240

Qy   309  CACGTGTGTGACACCGACTTGTGCAACCGCACTCGGCCCATGCCCAGGCGGCCGCGCTGC  368
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241  CACGTGCTGTGACACCGACTTGTGCAACCGCACTCGGCCCATGCCCAGGCGGCCGCGCTGC  300

Qy   369  CGCCATCCTTGCGCTCCTCCGCGCTCCGGCACTCGGCCTGTCTCGGGGGACCCGGCCAGCTATA  428
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301  CGCCATCCTTGCGCTCCTCCGCGCTCCGGCACTCGGCCTGTCTCGGGGGACCCGGCCAGCTATA  360

Qy   429  GGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCTCGGTGTGCCTCGGCACATCCTAACGCAA  488
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361  GGCTCTGGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCTCGGTGTGCCTCGGCACATCCTAACGCAA  420

Qy   489  TCCTCACAGACCTGCACCCCTCGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGCCTCTCCA  548
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   421  TCCTCACAGACCTGCACCCCTCGTTTCCATGGCCCAGCATTCTCCACCCTTAACCTGCCTCTCCA  480

Qy   549  GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCCGTCCCCACCCCTCCCA  608
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481  GTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCCGTCCCCACCCCTCTCCA  540

Qy   609  GGACTCCCACCCCGGCAGATCAGCCTCTAGTGACACAGATCGGCCTGCGAGATGGCCCCTCCA  668
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   541  GGACTCCCACCCCGGCAGATCAGCTCTAGTGACACAGATCGGCCTGCAGATGGCCCCTCCA  600

Qy   669  ACCTCTCTGCTGCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTCAGGC  728
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   601  ACCTCTCTGCTGCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTCAGGC  660

Qy   729  ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCTATGACTTGAGCCAGGTCTGGT  788
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Db    661 ACCTCTTCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTGGT 720
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Qy    789 CCGTGGTGTCCCCGCCACCCAGCAGGGGACCAGGCACTCAGGAGGGGCCCAGTAAAGGCTGA 848
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Db    721 CCGTGGTGTCCCCGCCACCCAGCAGGGGACCAGGCACTCAGGAGGGGCCCAGTAAAGGCTGA 780

Qy    849 GATGAAGTGGACTGGACTAGTAGAACTCGAGACAACAAGAGTCGAGTCGAGTTCCTGGGAGTCTCC 908
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    781 GATGAAGTGGACTGGACTAGTAGAACTCGAGACAACAAGAGTCGAGTCGAGTTCCTGGGAGTCTCC 840

Qy    909 AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGGCTCCCTG 968
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841 AGAGATGGGGCCTGGAGGCCTGGAGGAAGGGGCCAGGCCTCACATTCGTGGGGGCTCCCTG 900

Qy    969 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCCA 1023
              |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901 AATGCCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGTTGGATAAGCCAA 955
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RESULT 15

US-09-904-859-17

; Sequence 17, Application US/09904859

; Publication No. US20030036060A1

; GENERAL INFORMATION:

;   APPLICANT: Genentech, Inc.
;   APPLICANT: Ashkenazi, Avi
;   APPLICANT: Botstein, David
;   APPLICANT: Desnoyers, Luc
;   APPLICANT: Eaton, Dan L.
;   APPLICANT: Ferrara, Napoleone
;   APPLICANT: Filvaroff, Ellen
;   APPLICANT: Fong, Sherman
;   APPLICANT: Gao, Wei-Qiang
;   APPLICANT: Gerber, Hanspeter
;   APPLICANT: Gerritsen, Mary E.
;   APPLICANT: Goddard, A.
;   APPLICANT: Godowski, Paul J.
;   APPLICANT: Grimaldi, Christopher J.
;   APPLICANT: Gurney, Austin L.
;   APPLICANT: Hillan, Kenneth, J.
;   APPLICANT: Kljavin, Ivar J.
;   APPLICANT: Mather, Jennie P.
;   APPLICANT: Pan, James
;   APPLICANT: Paoni, Nicholas F.
;   APPLICANT: Roy, Margaret Ann
;   APPLICANT: Stewart, Timothy A.
;   APPLICANT: Tumas, Daniel
;   APPLICANT: Williams, P. Mickey
;   APPLICANT: Wood, William, I.
;   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;   TITLE OF INVENTION: Acids Encoding the Same
;   FILE REFERENCE: 10466-14
;   CURRENT APPLICATION NUMBER: US/09/904,859
;   CURRENT FILING DATE: 2001-07-12
;   PRIOR APPLICATION NUMBER: 09/665,350
;   PRIOR APPLICATION FILING DATE: 2000-09-18
;   PRIOR APPLICATION NUMBER: PCT/US00/04414
;   PRIOR FILING DATE: 2000-02-22
;   PRIOR APPLICATION NUMBER: US 60/143,048
;   PRIOR FILING DATE: 1999-07-07
;   PRIOR APPLICATION NUMBER: US 60/145,698
;   PRIOR FILING DATE: 1999-07-26
;   PRIOR APPLICATION NUMBER: US 60/146,222
;   PRIOR FILING DATE: 1999-07-28
;   PRIOR APPLICATION NUMBER: PCT/US99/20594
;   PRIOR FILING DATE: 1999-09-08
;   PRIOR APPLICATION NUMBER: PCT/US99/20944
;   PRIOR FILING DATE: 1999-09-13
;   PRIOR APPLICATION NUMBER: PCT/US99/21090
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/21547
;   PRIOR FILING DATE: 1999-09-15
;   PRIOR APPLICATION NUMBER: PCT/US99/23089
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: PCT/US99/28214
;   PRIOR FILING DATE: 1999-11-29
;   PRIOR APPLICATION NUMBER: PCT/US99/28313
;   PRIOR FILING DATE: 1999-11-30
;   PRIOR APPLICATION NUMBER: PCT/US99/28564
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/28565
;   PRIOR FILING DATE: 1999-12-02
;   PRIOR APPLICATION NUMBER: PCT/US99/30095
;   PRIOR FILING DATE: 1999-12-16
;   PRIOR APPLICATION NUMBER: PCT/US99/30911
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US99/30999
;   PRIOR FILING DATE: 1999-12-20
;   PRIOR APPLICATION NUMBER: PCT/US00/00219
;   PRIOR FILING DATE: 2000-01-05
;   NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 17
;   LENGTH: 960
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-904-859-17

Query Match   93.2%;   Score 953.4;   DB 10;   Length 960;
Best Local Similarity   99.9%;   Pred. No. 7.8e-249;
Matches   954;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

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Qy    129 CTCCTGCAAAGCCCAGGTGGAGCAACGAGGAGGACTGCCTGCAGGTGGAGAACTGCACCAGCT 188
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Db     61 CTCCTGCAAAGCCCAGGTGGAGCAACGAGGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCT 120

Qy    189 GGGGGAGCAGTGCTGGACCGCGGCATCCGGCAGTTGGCCTTCCTGACCGTCATCAGCAA 248
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Qy    249 AGGCTGCAGCTTGAACTGCGTGATGACTCACAGGACTACTACGTGGGCAAGAAGAACAT 308
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Qy    309 CACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCAGCCGCGGCTGC 368
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Qy    369 CGCCATCCTTGCGCTGCTCCCTGCCACTCGGCCTGTCCCTGCTGTCTGGGACCCGGCCAGCTATA 428
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Db    301 CGCCATCCTTGCGCTGCTCCCTGCCACTCGGCCTGTCCCTGCTGTCTGGGACCCGGCCAGCTATA 360

Qy    429 GGCTCTGGGGGGCCCGGGGGCCCCCTGCAGCCCACCACTGGGTGTGGTGCCCAGGCCTCGTGCCAC 488
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Db    361 GGCTCTGGGGGGCCCGGGGGCCCCCTGCAGCCCACCACTGGGTGTGGTGCCCAGGCCTCTGTGCCAC 420

Qy    489 TCCTCACAGACCTGGCCCAGTGGAGCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAA 548
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Qy    669 ACCCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCACCCTAACCCTGTTGCTCAGCGC 728
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601 ACCCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCACCCTAACCCCTTAACCCTGTTGCTCAGGC 660
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us-09-079-874-12.rnpb

Mon Sep 20 09:12:03 2004

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Qy   729 ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCATCTATGACTTGAGCCAGGTCTGGT 788
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 ACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCATCTATGACTTGAGCCAGGTCTGGT 720

Qy   789 CCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 848
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 CCGTGGTGTCCCCGCACCCAGCAGGGGACAGGCACTCAGGAGGGCCCAGTAAAGGCTGA 780

Qy   849 GATGAAGTGGACTGAGTAGAACTGGAGAGACAAGAGTCGACGTGAGTCCTGGGAGTCTCC 908
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GATGAAGTGGACTGAGTAGAACTGGAGAGACAAGAGTCGACGTGAGTTCCTGGGAGTCTCC 840

Qy   909 AGAGATGGGGCCTGGAGGCCTGGAGGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 968
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Db   841 AGAGATGGGGCCTGGAGGCCTGGAGGAGGGGGCCAGGCCTCACATTCGTGGGGCTCCCTG 900

Qy   969 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCCTGTTGGATAAGCCCCA 1023
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Db   901 AATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCCTGTTGGATAAGCCCAA 955
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Search completed: September 18, 2004, 20:20:30
Job time : 769.688 secs

OM nucleic - nucleic search, using sw model

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                GenCore version 5.1.6
        Copyright (c) 1993 - 2004 Compugen Ltd.
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Run on: September 18, 2004, 05:54:35 ; Search time 4678.08 Seconds
                                            (without alignments)
                                            6530.246 Million cell updates/sec

Title: US-09-079-874-12
Perfect score: 1023
Sequence: 1 CATTTGAGGCCATATAAAGT.........ACACCTGTTGGATAAGCCCA 1023

Scoring table: IDENTITY_NUC
                Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 1493109276 residues

Total number of hits satisfying chosen parameters: 55025678

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database : EST:*
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 2: em_esthum:*
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 6: em_estpl:*
 7: em_estro:*
 8: em_htc:*
 9: gb_est1:*
10: gb_est2:*
11: gb_htc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrt:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rod:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	970.4	94.9	1024	8	BC023582	BC023582 Homo sapi
2	949.4	92.8	990	11	BC048808	BC048808 Homo sapi
3	902.2	88.2	1009	13	BU168445	BU168445 AGENCOURT
4	827.6	80.9	911	13	BU194301	BU194301 AGENCOURT
5	769.6	75.2	922	13	BU168360	BU168360 AGENCOURT
6	758	74.1	924	13	BQ678675	BQ678675 AGENCOURT
7	749.8	73.3	972	12	BM018834	BM018834 603646752
8	740.6	72.4	827	12	BM018750	BM018750 603646652
9	734	71.7	957	13	BQ876328	BQ876328 AGENCOURT
10	723.2	70.7	749	12	BM042052	BM042052 603616054
11	715	69.9	901	13	BU173702	BU173702 AGENCOURT
12	706.4	69.1	743	12	BM980213	BM980213 UI-CF-EN1
13	702	68.6	735	12	BM041997	BM041997 603615880
14	694.6	67.9	936	13	BU174241	BU174241 AGENCOURT
15	691.4	67.6	738	12	BM980194	BM980194 UI-CF-EN1
16	688.2	67.3	738	12	BM980828	BM980828 UI-CF-EN1
17	686.6	67.1	970	13	BU179764	BU179764 AGENCOURT
18	686.4	67.1	748	12	BG765417	BG765417 602738887
19	679.4	66.4	843	13	CB997275	CB997275 AGENCOURT
20	666.4	65.1	700	13	BU621296	BU621296 UI-H-Fl1-
21	662.6	64.8	682	14	CB850631	CB850631 UI-CF-EN1
22	660.8	64.6	820	14	CB996183	CB996183 AGENCOURT
23	656	64.1	924	13	BU174317	BU174317 AGENCOURT
24	642.6	62.8	692	12	BG761095	BG761095 602717425
25	609	59.5	682	12	BM042219	BM042219 603616172
26	591	57.8	592	12	BM783852	BM783852 K-EST0061
27	573.4	56.1	599	12	BQ019300	BQ019300 UI-H-DT1-
28	567.2	55.4	851	14	CB993163	CB993163 AGENCOURT
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30	551	53.9	571	12	BI763933	BI763933 603049810
31	540.8	52.9	550	14	CB147558	CB147558 K-EST0203
32	537.4	52.5	547	12	BM828076	BM828076 K-EST0100
33	525	51.3	527	13	BQ083498	BQ083498 K-EST0146
34	514.6	50.3	571	12	BI763453	BI763453 603047463
35	489	47.8	490	9	AI139599	AI139599 qc57d11.x
36	488.8	47.8	548	14	N32011	N32011 yw96a06.s1
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38	484.8	47.4	503	9	AA446964	AA446964 zw85f03.s
39	483.8	47.3	642	12	BI253841	BI253841 602974614
40	482.6	47.2	549	14	N32614	N32614 yw95e06.s1
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42	477	46.6	503	12	BM975759	BM975759 UI-CF-EN1
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ALIGNMENTS

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AC   BC023582;
XX
SV   BC023582.1
XX
DT   01-NOV-2002 (Rel. 73, Created)
DT   05-MAR-2003 (Rel. 75, Last updated, Version 3)
XX
DE   Homo sapiens, Similar to prostate stem cell antigen, clone IMAGE:4840974,
DE   mRNA.
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KW   HTC.
XX
OS   Homo sapiens (human)
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC   Eutheria; Primates; Catarrhini; Hominidae; Homo.
XX
RN   [1]
RC   NIH-MGC Project URL: http://mgc.nci.nih.gov
RP   1-1024
RA   Strausberg R.;
RT   ;
RL   Submitted (05-FEB-2002) to the EMBL/GenBank/DDBJ databases.
RL   National Institutes of Health, Mammalian Gene Collection (MGC), Cancer
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Qy   412 GGACCCGGCCAGCTATAGGCTCTCGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCC 471
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Db   370 GGACCCGGCCAGCTATAGGCTCTCGGGGGCCCCGCTGCAGCCCACACTGGGTGTGGTGCC 429

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Qy   952 ATTCGTGGGGCTCCCTGAATGGCAGCCTGAGCACAGCGTAGGCCCTTAATAAACACCTGT 1011
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Matches 971; Conservative   0; Mismatches   0; Indels   1; Gaps   0;

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Qy   112 ACTGCCCTGCTGTGCTACTCCTGCAAAGCCAGTGAGCAACGAGGACTGCCTGCAGGTG 171
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Web site: http://www.nisc.nih.gov/
Contact: nisc_mgc@nhgri.nih.gov
Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D.,McCloskey,J.C.,
McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
Young,A., Zhang,L.-H. and Green,E.D.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Series: IRAK Plate: 93 Row: h Column: 18
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 5031994
This clone has the following problem: retained intron.

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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5187662"
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                     /lab_host="DH10B"
                     /note="Vector: pCMV-SPORT6"

ORIGIN

Query Match   92.8%; Score 949.4; DB 11; Length 990;
Best Local Similarity 98.9%; Pred. No. 3e-184;
Matches 956; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

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Qy   712 TAACCCTGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCATGA 771
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 TAACCCGTGCTCAGGCACCTCTTCCCCAGGAAGCCTTCCCTGCCACCCCATCATGA 720

Qy   772 CTTGAGCCAGGTTGGTCCGTGGTGTCCCCGCCACCCAGCAGGGACAGGCACTCAGGAG 831
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   721 CTTGAGCCAGGTTGGTCCGTGGTGTCCCCGCCACCCAGCAGGGACAGGCACTCAGGAG 780

Qy   832 GGGCCAGTAAAGGCTGAGATGAAGTGACTGAGTAGAACTGAGGAGGACAAGAGTCGACTG 891
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   781 GGGCCCGGTAAAGGCTGAGATGAAGTGACTGAGTAGAACTGAGGAGGACAGGAGTCGACGTG 840

Qy   892 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGATGGGGAGGAAGGGCCAGGCCTCAC 951
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   841 AGTTCCTGGGAGTCTCCAGAGATGGGGCCTGGAGGATGGGGAGGAAGGGCCAGGCCTCAC 900

Qy   952 ATTCGTGGGCTCCTGATAATGGCAGCCTGAGCACAGGCCTAGCCCCTTAATAAACACCTGT 1011
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   901 ATTCGTGGGCTCCTGATAATGGCAGCCTCAGCACCACAGCCCTAGCCCTTAATAAACACCTGT 960

Qy   1012 TGGATAA 1018
            |||||||
Db   961 TGGATAA 967

RESULT 3
BU168445
LOCUS   BU168445   AGENCOURT_6937254 NIH_MGC_110 Homo sapiens   1009 bp   mRNA   linear   EST 04-SEP-2002
DEFINITION AGENCOURT_6937254 NIH_MGC_110 Homo sapiens cDNA clone IMAGE:5952095
            5', mRNA sequence.
ACCESSION   BU168445
VERSION   BU168445.1   GI:22682429
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 1009)
  AUTHORS   National Institutes of Health, Mammalian Gene Collection (MGC)
  TITLE   NIH-MGC http://mgc.nci.nih.gov/.
  JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2139 row: i column: 24
            High quality sequence stop: 731.
FEATURES   Location/Qualifiers
     source   1..1009
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5952095"
                     /tissue_type="ductal carcinoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_110"
                     /note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
                     Site_2: EcoRI; cDNA made by oligo-dT priming.
                     Directionally cloned into EcoRI/XhoI sites using the
                     following 5' adaptor: GGCACGAG(G). Library constructed by
                     Ling Hong in the laboratory of Gerald M. Rubin (University
                     of California, Berkeley) using ZAP-cDNA synthesis kit
                     (Stratagene) and Superscript II RT (Life Technologies).
                     Note: this is a NIH_MGC Library."

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LOCUS       BU194301                911 bp    mRNA    linear   EST 04-SEP-2002
DEFINITION  AGENCOURT_7962297 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6106261
            5', mRNA sequence.
ACCESSION   BU194301
VERSION     BU194301.1  GI:22708285
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 911)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2347 row: a  column: 14
            High quality sequence stop: 649.
FEATURES             Location/Qualifiers
     source          1..911
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6106261"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site_1: XhoI; Site_2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN
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Query Match 80.9%; Score 827.6; DB 13; Length 911;
Best Local Similarity 97.5%; Pred. No. 2.8e-159;
Matches 850; Conservative 0; Mismatches 21; Indels 1; Gaps 1;

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Qy  144 GGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCCACCCAGCTCGGGGAGCAGTGCTG 203
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Db    1 GGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCCACCCAGCTCGGGGAGCAGTGCTG 60

Qy  204 GACCGGCGCATCCGGCGACTGGCCTCCTGACCGTGGCCATCAGCAGCAAGGCTTGCAGCTTGAA 263
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 GACCGGCGCATCCGGCGACTGGCCTCCTGACCGTCATCAGCAAGGCTTGCAGCTTGAA 120

Qy  264 CTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACATCACGTGTGTGACAC 323
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  121 CTGCGTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACATCACGTGTGTGACAC 180

Qy  324 CGACTTGTGCAACGCCAGCCGGGGCCCCGGGGGGCCCAGTCAGCCCATCCTTGCGCT 383
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  181 CGACTTGTGCAACGCCAGCCGGGGCCCCGGGGGGCCCAGTCAGCCCATCCTTGCGCT 240

Qy  384 GCTCCCTGCACTCGGGCTGCTCTGGGGTGGTCGCACCTGGGGGGCCCTATAGGCTCTG 443
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241 GCTCCCTGCACTCGGGCTGCTCTGGGGTGGTCGCACCTGGGGGGCCCTATAGGCTCTG 300

Qy  444 CCGCTGCAGCCCCACACTCGGGTGGTGCCTCCTCAGACCTGG 503
        ||||||||||||||||||||||||||||||||||||||||||
Db  301 CCGCTGCAGCCCCACACTCGGGTGGTGCCTCCTCAGACCTGG 360

Qy  504 CCCAGTCGGGGAGCCGTGTCCTGGTTCCTGAGGCACATCCTAACGCAGTCTGACCATGTATG 563
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us-09-079-874-12.rst
Mon Sep 20 09:12:03 2004

ORIGIN

Query Match 88.2%; Score 902.2; DB 13; Length 1009;
Best Local Similarity 97.9%; Pred. No. 1.5e-174;
Matches 935; Conservative 0; Mismatches 18; Indels 2; Gaps 2;

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        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 AAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTG 60

Qy  121 CTGTGCTACTCCTGCAAAGCCAGTTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGC 180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 CTGTGCTACTCCTGCAAAGCCAGTTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGC 120

Qy  181 ACCCAGCTGGGGAGCAGTGCTGACCGGCGCATCCGGCAGTTGGCCTCCTGACCCTC 240
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Db  121 ACCCAGCTGGGGAGCAGTGCTGACCGGCGCATCCGGCAGTTGGCCTCCTGACCCTC 180

Qy  241 ATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAG 300
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  181 ATCAGCAAAGGCTGCAGCTTGAACTGCGTGGATGACTCACAGGACTACTACGTGGGCAAG 240

Qy  301 AAGAACATCACGTGCGTGTGACACCGACTTGTGCAACGCGGGGCCCCATGCCCTGCAG 360
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  241 AAGAACATCACGTGCGTGTGACACCGACTTGTGCAACGCGGGGCCCCATGCCCTGCAG 300

Qy  361 CCGGCTGCCCCATCCTTGCGCTCGGCCACTCGGGCTGCTCTGGGGGACCCCGGC 420
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Db  301 CCGGCTGCCCATCCTTGCGCTCGGCCACTCGGGCTGCTCTGGGGGACCCCGGC 360

Qy  421 CAGTATAGGCTCTGCCGCTGCAGCCCCACACTCGGGTGTGGTGCCCCAGGCCTC 480
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  361 CAGTCTAGGCTCTGCCGCTGCAGCCCCACACTCGGGTGTGGTGCCCCAGGCCTC 420

Qy  481 TGTGCCACTCCTCAGACCTCCAGCCATGTATGTCGCCAGTGGGAGCTGGGAGCCCATCC 540
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  421 TGTGCCACTCCTCACACACCGGCCCAGTGGGAGCCCGTGTCCTGGTTCCTGAGGCACATCC 480

Qy  541 TAACCAAGTCTGACCATGTATGTCGCGCCCCTGTCCCCACCCTGACCCTCCCATGGC 600
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  481 TAACCAAGTCTGACCATGTATGTCGCGCCCCTGTCCCCACCCTGACCCTCCCATGGC 540

Qy  601 CCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCTCGCAGATGG 660
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Db  541 CCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTATTGACACAGATCCGCTCGCAGATGG 600

Qy  661 CCCCTCCAACCCTCTGCTCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT 720
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Db  601 CCCCTCCAACCCTCTGCTCGTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGT 660

Qy  721 GCTCAGGCACCTCTCCCCAGAAGCCTTCCCTGCCCCATCTATGACTTGAGCCA 780
        ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  661 GCTCAGGCACCTCTCCCCAGAAGCCTTCCCTGCCCCATCTATGACTTGAGCCA 720

Qy  781 GGTCTGGTCGTGGTGTCCCCGACCCAGCAGGGGACACTCAGGAGGGCCCAGTA 840
        ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  721 GGTCTGGTCGTGGTGTCCCCGACCCAGCAGGGGACACTCAGGAGGGCCCCGTA 780

Qy  841 AAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGGTTCCTGG 900
        |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  781 AAGGCTGAGATGAAGTGGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGGTTCCTG 840

Qy  901 GAGTCTTCCAGAGATGGGGCCTGGAGCCTGGAGGGGCCTCACATTCGTGGG 960
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Db  841 GAGTCTTCCAGAGATGGGGCCTGGAGCCTGGAGGGGCCTCACATTCGTGGG 900

Qy  961 GCTCCCTGAATGGCAGCCTGACACGCAGCGTA-GGCCCTTAATAAACACCTGTTGG 1014
        ||||||||||||||||||||||||||||||||  |||||||||||||||||||||
Db  900 GCTCCCTGAATGGCAGCCTGACACGCAGCGTAGGCCCTTAATAAACACCTGTTGG 954
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RESULT 4
BU194301

EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCACGAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

ORIGIN

Query Match   75.2%;   Score 769.6; DB 13; Length 922;
Best Local Similarity 98.4%; Pred. No. 2.2e-147;
Matches 787; Conservative 0; Mismatches 11; Indels 2; Gaps 1;

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Qy    143 AGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCTGGGGGAGCAGTGCT 202
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 AGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCTGGGGGAGCAGTGCT 60

Qy    203 GGACCGCGCGCATCCGCGGCAGTGTGGCCTCTGACCGTCATCAGCAAAGGCTGCAGCTTGA 262
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 GGACCGCGCGCATCCGCGGCAGTGTGGCCTCTGACCGTCATCAGCAAAGGCTGCAGCTTGA 120

Qy    263 ACTGCCTGGATGACTCACAGGACTACACGTGGGCAAGAAGAACATCACGTGCTGTGACA 322
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Db    121 ACTGCCTGGATGACTCACAGGACTACACGTGGGCAAGAAGAACATCACGTGCTGTGACA 180

Qy    323 CCGACTTGTGCAACGCCGGGGCCCATGCCCTGCGCCGCCATCCTTGCGC 382
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Db    181 CCGACTTGTGCAACGCCGGGGCCCATGCCCTGCGCCGCCATCCTTGCGC 240

Qy    383 TGCTCCCTGCACTCGGCCTGCTCTGGGGACCCGGCTATAGGCTCTGGGGGGCC 442
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Db    241 TGCTCCCTGCACTCGGCCTGCTCTGGGGACCCGGCTATAGGCTCTGGGGGGGCC 300

Qy    443 CCGCTGCAGCCCACACTGGGTGGTGCCCAGGCACATCCTCGTTGCCACTCCTCACAGACCTG 502
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Db    301 CCGCTGCAGCCCACACTGGGTGGTGCCCAGGCCTCTGTTGCCACTCCTCACAGACCTG 360

Qy    503 GCCCAGTGGGAGCCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTAT 562
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Db    361 GCCCAGTGGGAGCCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTAT 420

Qy    563 GTCTGCACCCCGTCCCCCGACCCTCCATGGCCCTCTCCAGGACTCCCACCCGG 622
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421 GTCTGCACCCCGTCCCCCGACCCTCCATGGCCCTCTCCAGGACTCCCACCCGG 480

Qy    623 CAGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGGCCCCTCCCAACCCTCTCTGCTGC 682
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Db    481 CAGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGGCCCCTCCCAACCCTCTCTGCTGC 540

Qy    683 TGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAG 742
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Db    541 TGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAG 600

Qy    743 GAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCC 802
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601 GAAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCC 660

Qy    803 GCACCCAGCAGGGGACAGGCCACTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTG 862
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661 GCACCCAGCAGGGGACAGGCCACTCAGGAGGGGCCCAGTAAAGGCTGAAATGAAGTGGACTG 720

Qy    863 AGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCCAGAGATGGGG--CC 920
          ||||||| ||||||||||||||||||||||||||||||||||||||||||||||   ||
Db    721 AGTANAACTGGAGGANCANCAGTCGACGTGAGTTCCTGGGAGTTCCCAAAGATGGGGCCT 780

Qy    921 TGGAGGCCTGGAGAAGGGG 940
          |||||||||||||||||||
Db    781 GGAAGCCCTGGAGAAAGGG 800
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Db    361 CCCAGTGGGAGCCCTGTCCTGGTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATG 420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy    564 TCTGCACCCCGTCCCCCGACCCTGACCCTCCATGGCCCTCTCCAGGACTCCCACCCGGC 623
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Db    421 TCTGCACCCCGTCCCCCGACCCTGACCCTCCATGGCCCTCTCCAGGACTCCCACCCGGC 480

Qy    624 AGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGGCCCCTCCCAACCCTCTCTGCTGCT 683
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Db    481 AGATCAGCTCTAGTGACACAGATCCGGCTGCAGATGGCCCCTCCCAACCCTCTCTGCTGCT 540

Qy    684 GTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGG 743
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541 GTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGCTCAGGCACCTCTTCCCCCAGG 600

Qy    744 AAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCG 803
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Db    601 AAGCCTTCCCTGCCCACCCCATCTATGACTTGAGCCAGGTCTTGGTCCGTGGTGTCCCCG 660

Qy    804 CACCCAGCAGGGGACAGGCCACTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGTGGACTGA 863
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Db    661 CACCCAGCAGGGGACAGGCCACTCAGGAGGGGCCCAGTAAGGCTGAGATGAAGTGGACTGA 720

Qy    864 GTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGGGAGTCTTCCAGAGATGGGGCCTGG 923
          |||||| |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    721 GTAGAACTGGAGGACAAGAAGTCCAGCGTGAGTTCCTGGGAGTCTTCCAGAGATGGGGCCTGG 780

Qy    924 AGGCCTGGAGGAAGGGGCCAGGCCTCCCACATTGTGGGGCTCCCTGAATGGCAGCCTGAGC 983
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Db    781 AGGCCTGGAGGAAAGGGGCCAGGCCTCCCACATTCTGGGGGCTCCCCGGAATGGCACCCGGAAC 840

Qy    984 A-CAGGCGTAGGCCCTTAATAAAACACCTGTTGG 1014
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Db    841 ACCGGCGTAGGCCCTTAATAAAACACCCCTGGG 872
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```
RESULT 5
BU168360
LOCUS       BU168360               922 bp    mRNA       linear     EST 04-SEP-2002
DEFINITION  AGENCOURT_7983951 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6110984
            5', mRNA sequence.
ACCESSION   BU168360
VERSION     BU168360.1  GI:22682344
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 922)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2359  row: f  column: 09
            High quality sequence stop: 597.
FEATURES             Location/Qualifiers
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                     /db_xref="taxon:9606"
                     /clone="IMAGE:6110984"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: sKin; Vector: pOTB7; Site_1: XhoI; Site_2:
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RESULT 6
BQ678675
LOCUS   BQ678675   924 bp   mRNA   linear   EST 15-JUL-2002

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Db    361  CCGGCCAGCTCTAGGCTCTGGGGGCGCCCCGTGGGGGGGGCCCCACTGGGTGGTGCTGGTTCCTGAGGCCAG 420
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Qy    476  GCCTCTGTGCCACTCCTCACAGACCTGGCCCCAGTGGGAGCCGTCTGCTGGTTCCTGAGGCA 535
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421  GCCTCTGTGCCACTCCTCACACACCCGGCCCACCCGGCCCACCCGTGTCCTGGTTCCTGAGGCA 480

Qy    536  CATCCTAACGCAAGTCGACCATGTAGTCTGCACCCGTCCCCACCCTGACCCTCCC 595
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481  CATCCTAACGCAAGTCGACCATGTAGTCTGCGCCCGTCCCTGTCCCCACCCTGACCCTCCC 540

Qy    596  ATGGCCCCTCTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACACAGATCCGCCTGCA 655
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541  ATGGCCCCTCTCCAGGACTCCCACCCGGCAGATCGGCTCTCATTGACACAGATCCGCCTGCA 600

Qy    656  GATGGCCCCTCCAACCCTCTGCTGTGTTCCATGGCCCAGCATTCTCCACCCTTAAC 715
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  GATGGCCCCTCCAACCCTCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAAC 660

Qy    716  CCTGTGCTCAGGCACCTCTTCCCCCCAGAAGCCTCCCTGCCACCCATCTATGACTTG 775
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    661  CCTGTGCTCAGGCACCTCTTCCCCCCAGGAAGCCTCCCTGCCCACCCATCTATGACTTG 720

Qy    776  AGCCAGGTCTGG--TCCGGTCGTGTCCCCGCACCCAGGGACCAGGGCACT-CAGGAGG 832
           ||||||||||||  |||||||||||||||||||||  ||||||||||||| ||||||||
Db    721  AGCCAGGTCTGGCTCCGGTCGTGTCCCCGCACCCAGGGGACCAGGGCACTCAGGAGG 780

Qy    833  GCCCAGTAAAGCTGAGATGAAGTCGAC 860
           |||||||||||||| ||||||||||||
Db    781  GCCCGGAAAGGCTTGAGATGAAATCGAC 808
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RESULT 7
BM018834
LOCUS       BM018834                972 bp    mRNA       linear   EST 30-OCT-2001
DEFINITION  603646752F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:5428285 5',
            mRNA sequence.
ACCESSION   BM018834
VERSION     BM018834.1  GI:16533188
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 972)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM1895  row: h  column: 14
            High quality sequence stop: 831.
FEATURES             Location/Qualifiers
     source          1..972
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5428285"
                     /tissue_type="astrocytoma grade IV, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_98"
                     /note="Organ: brain; Vector: pOTB7; Site 1: XhoI; Site_2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally
                     cloned into EcoRI/XhoI sites using the following 5'
                     adaptor: GGCACGAG(G). Library constructed by Ling Hong
                     in the laboratory of Gerald M. Rubin (University of
                     California, Berkeley) using ZAP-cDNA synthesis kit
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DEFINITION  AGENCOURT_8183287 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6262397
            5', mRNA sequence.
ACCESSION   BQ678675
VERSION     BQ678675.1  GI:21791354
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 924)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2424  row: k  column: 06
            High quality sequence stop: 673.
FEATURES             Location/Qualifiers
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                     /clone="IMAGE:6262397"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
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ORIGIN

Query Match        74.1%;  Score 758;  DB 13;  Length 924;
Best Local Similarity 97.8%;  Pred. No. 5.3e-145;
Matches  790;  Conservative  0;  Mismatches  15;  Indels  3;  Gaps  2;

Qy     56  CCATGAAGGCTGTGCTCCTGTTCCCTGTTGATGGCAGGCAGGCCCTGCCCTGCAGCCAGGCCACTG 115
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1  CCACGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGGTTGCCCTGCAGCCAGGCCACTG 60

Qy    116  CCCTGCTGCTACTCCTGCAAAGCCAGGTGGAGCAACGAGGACTGCCTGCCAGGGTGGGAGA 175
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61  CCCTGCTGCTACTCCTGCAAAGCCAGGTGAGCAACGAGGACTGCCTGCCAGGGTGGGAGA 120

Qy    176  ACTGCACCCAGTCTGGGGGAGCAGTGCTGGGACCGCGCCAGTTGGCCTCCTGA 235
           ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121  ACTGCACCCAGTCTGGGGGAGCAGTGCTGGGACCGCGCCAGTTGGCCTCCTGA 180

Qy    236  CCGTCATCAGCACAAAGGCTGCAGCTTGAACTGCGTGAAGACTTCACAGGACTACTACGTGG 295
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181  CCGTCATCAGCACAAAGGCTGCAGCTTGAACTGCGTGATGACTTCACAGGACTACTACGTGG 240

Qy    296  GCAAGAGAACATCACGTGCTGTGACACCGACTTGTCAACGCCAGCGGGGCCATGCCC 355
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241  GCAAGAGAACATCACGTGCTGTGACACCGACTTGTCAACGCCAGCGGGGCCATGCCC 300

Qy    356  TGCAGCCGGCTGCCGCAATCCTTGCGCTCCTCCCACCACTCGGCCTGCTCTGGGGAC 415
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301  TGCAGCCGGCTGCTGCCATCCTTGCGCTCCTCCCGCACTCGGCCTGCTCTGGGGAC 360

Qy    416  CCGGCCAGTCAGCTATAGGCTCTGGGGGCGCCCCGTGGGGGGGGCCCCACTGGGTGGTGCTGGTTCCTGCCCAG 475
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RESULT 8
BM018750
LOCUS   BM018750   603646652F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:5428261 5',
DEFINITION 603646652F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:5428261 5',
            mRNA sequence.
ACCESSION   BM018750
VERSION   BM018750.1 GI:16533104
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 827)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: ATCC
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM1895 row: g column: 14
            High quality sequence stop: 810.
FEATURES   Location/Qualifiers
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5428261"
                     /tissue_type="astrocytoma grade IV, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_98"
                     /note="Organ: brain; Vector: pOTB7; Site_1: XhoI; Site_2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally
                     cloned into EcoRI/XhoI sites using the following 5'
                     adaptor: GGCACGAG(G). Library constructed by Ling Hong
                     in the laboratory of Gerald M. Rubin (University of
                     California, Berkeley) using ZAP-cDNA synthesis kit
                     (Stratagene) and Superscript II RT (Life Technologies).
                     Note: this is a NIH_MGC Library."
ORIGIN

Query Match   72.4%; Score 740.6; DB 12; Length 827;
Best Local Similarity 98.1%; Pred. No. 1.9e-141;
Matches 813; Conservative 0; Mismatches 9; Indels 7; Gaps 6;

Qy   44 GCCCACCAGTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGC 103
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2 GCCCACCAGTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGC 61

Qy   104 AGCCAGGCACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGACTGCC 163
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   62 AGCCAGGCACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGACTGCC 121

Qy   164 TGCAGGTGGAGAACTGCACCCAGCTGGGGAGCAGTGCTGGACCCGCGCATCCGCGCGCAG 223
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   122 TGCAGGTGGAGAACTGCACCCAGCTGGGGAGCAGTGCTGGACCCGCGCATCCGCGCGCAG 181

Qy   224 TTGGCCTCCTGACCGTCATCAGCAAAGGCTGCAGTTGAACTGCGTGATGACTCACAGG 283
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   182 TTGGCCTCCTGACCGTCATCAGCAAAGGCTGCAGTTGAACTGCGTGATGACTCACAGG 241

Qy   284 ACTACTACGTGGGCAAGAGAACATCACGTCGTGTGACACCGACTTGTCGAACGCCAGCG 343
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Db   242 ACTACTACGTGGGCAAGAGAACATCACGTCGTGTGACACCGACTTGTCGAACGCCAGCG 301

Qy   344 GGGCCCATGCCCTGCAGCCGGCTGCGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGC 403
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   302 GGGCCCATGCCCTGCAGCCGGCTGCGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGC 361

ORIGIN

                     (Stratagene) and Superscript II RT (Life Technologies).
                     Note: this is a NIH_MGC Library."

Query Match   73.3%; Score 749.8; DB 12; Length 972;
Best Local Similarity 93.8%; Pred. No. 2.6e-143;
Matches 845; Conservative 0; Mismatches 0; Indels 49; Gaps 6;

Qy   44 GCCCACCAGTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGC 103
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Db   2 GCCCACCAGTGACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGC 61

Qy   104 AGCCAGGCACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGACTGCC 163
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Db   62 AGCCAGGCACTGCCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGACTGCC 121

Qy   164 TGCAGGTGGAGAACTGCACCCAGCTGGGGAGCAGTGCTGGACCCGCGCATCCGCGCGCAG 223
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   122 TGCAGGTGGAGAACTGCACCCAGCTGGGGAGCAGTGCTGGACCCGCGCATCCGCGCGCAG 181

Qy   224 TTGGCCTCCTGACCGTCATCAGCAAAGGCTGCAGTTGAACTGCGTGATGACTCACAGG 283
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   182 TTGGCCTCCTGACCGTCATCAGCAAAGGCTGCAGTTGAACTGCGTGATGACTCACAGG 241

Qy   284 ACTACTACGTGGGCAAGAGAACATCACGTCGTGTGACACCGACTTGTCGAACGCCAGCG 343
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   242 ACTACTACGTGGGCAAGAGAACATCACGTCGTGTGACACCGACTTGTCGAACGCCAGCG 301

Qy   344 GGGCCCATGCCCTGCAGCCGGCTGCGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGC 403
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   302 GGGCCCATGCCCTGCAGCCGGCTGCGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGC 361

Qy   404 TGCTCTGGGACCCGGCCAGCTATAGGCTCTGGGGGCCCCCGTGCAGCCCACACTGGGT 463
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   362 TGCTCTGGGACCCGGCCAGCTATAGGCTCTGGGGGCCCCCGTGCAGCCCACACTGGGT 421

Qy   464 GTGGTGCCCCAGGCCCTCTGTGCCACTCCTCACAGACCTGGCCAGTGGGAGCCTGTCCTG 523
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   422 GTGGTGCCCCAGGCCCTCTGTGCCACTCCTCACAGACCTGGCCAGTGGGAGCCTGTCTG 481

Qy   524 GTTCCTGAGGGCACATCTAAGGCAAGTGACCATGTGACGTCTGACACCCTGTCCCCA- 582
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||| |
Db   482 GTTCCTGAGGGCACATCTAAGGCAAGTGACCATGTGACGTCTGACACCCTGTCCCCAG 541

Qy   583 CCCTGACCCTCCCATGGCCCTTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACAC 642
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   542 ACCTGAACCTCCCATGGCCCTTCCAGGACTCCCACCCGGCAGATCAGCTCTAGTGACAC 601

Qy   643 -AGATCCCCTGCAGATGGCCCCTTCCAACCCTCCTGCTGTTTCCATGGCCCAG-CA 700
           ||||| ||||||||||||||||||||||||||||||||||||||||||||| ||
Db   602 AAGATCCNGCTGCAGATGGCCCCTTCCAACCCTCCTGCTGTTTCCATGGGCCAGACA 661

Qy   701 TTCTCACCCTTAACCCTGTGTCAGGCACCTTCCCTGCCCAC 760
          |||||||||||||||||||||||||||||||||||||||||
Db   662 TTCTCCAGCCTTAAACCTGTCTCAGGCACCTTCCCTGCCCA 721

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          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db   722 CCCATCTATGACTTGAGCCAGGTCTGGTGTCCCCGGACCCAGCAGGGACCAG 781

Qy   821 GCACTC-AGGAGGGGCCCAGTAAAGGCTGAGATGAAGGTGACTGAGTGAGACT-GGAGGAC 878
          ||||| |||||||||||||||||||||| |||||| ||||||||||||||| |||||||
Db   782 GCANTCAAGGAGGGGCCCAGTAAAGGTTGAGATCACGTGACTGAGTGAGACTGGGGAGGAC 841

Qy   879 AAGAGTGCACGTGAGTTCCTGGGAGTTCCAGAGATCTCCCAAGATTGGG--CTGGACGCTTGGGAACCG 938
          ||||||||||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||
Db   842 AAAGTCGACGTGAGTTCTGAGGAGTTCTGAGGAGTCTCCCAAGATTGGG--CTGGACGCTTGGGAACCG 899

Qy   939 G 939
          |
Db   900 G 900

GGCACCAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

ORIGIN

Query Match   71.7%; Score 734; DB 13; Length 957;
Best Local Similarity 97.7%; Pred. No. 4.6e-140;
Matches 766; Conservative 0; Mismatches 15; Indels 3; Gaps 2;

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Qy    56 CCATGAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGCCTTGCCTGTTCCAGGCAGGCAGGCACTG 115
            ||||||||||||||||| |||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1 CCACGAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGCCTTGCCCTGTTCCAGGCAGGCAGGCACTG 60

Qy   116 CCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCTGCCTGCAGGTGGAGA 175
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 CCCTGCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCTGCCTGCAGGTGGAGA 120

Qy   176 ACTGCACCCAGCTGGGGGAGCAGAGTGCTGGACCGGGCATCCGGCGCCATCCGGCGCCATCCGGCGCCATCCTTGGCCTTCCTGA 235
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Qy   236 CCGTCATCAGCAAAGGCTGCAGCTTGAACTGCTGTGATGACTCACAGGACTACTACGTGG 295
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Db   181 CCGTCATCAGCAAAGGCTGCAGCTTGAACTGCTGTGATGACTCACAGGACTACTACGTGG 240

Qy   296 GCAAGAAGAACATCACGTGTGTGACACCGACTTGTGCAACGCAGCGGGCCCATGCCC 355
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 GCAAGAAGAACATCACGTGTGTGACACCGACTTGTGCAACGCAGCGGGCCCATGCCC 300

Qy   356 TGCAGCCGGCTGCCGGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTGTCTGTGGTGCCCCAG 415
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 TGCAGCCGGCTGCCGGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTGTCTGTGGTGCCCCAG 360

Qy   416 CCGGCCAGCTATAGGCTTCTGGGGGCCCCCGCTCAGCCCACCACTGGGTGTGGTGCCCCGA 475
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Db   361 CCGGCCAGCTCTAGGCTTCTGGGGGCCCCCGCTCAGCCCACCACTGGGTGTGGTGCCCCAG 420

Qy   476 GCCTCTGTGCCACTCCTCACAGACCTGGAGCCTGTCTGTTCCTGAGGCA 535
            |||||||||||||||||||||||||||||||||||||||||||||||||
Db   421 GCCTCTGTGCCACTCCTCACACACCCGGCCAGTGGGAGCCTGTCTGTTCCTGAGGCA 480

Qy   536 CATCCTAACGCAAGTCGACAGTATGTCTGCACCCTGTGTCCCCGACCCTCCC 595
            |||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 CATCCTAACGCAAGTCGACAGTATGTCTGCACCCTGTGTCCCGTCCCCGACCCCTCCC 540

Qy   596 ATGGCCCTCTCCAGGACTCCACCCGGCCAGATCAGTCTTAGTGACACAGATCCGGCTGCA 655
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Db   541 ATGGCCCTCTTCCAGGACTCCACCCGGCCAGATCGGCTCATTGACACAGATCCGGCTGCA 600

Qy   656 GATGGCCCTCCAACCCTCTCTGCTGTTCCATGGCCAGCATTCCCACCCTTAAC 715
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Db   601 GATGGCCCTCCAACCCTCTCTGCTGTTTCCATGGCCAGCATTCCCACCCTTAAC 660

Qy   716 CCTGTGCTCAGGCACCCTTCCCCAGGAAGCTTCCTGCCCACCCATCTATGACTTG 775
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   661 CCTGTGCTCAGGCACCCTTCCCCAGGAAGCTTCCTGCCCACCCATCTATGACTTG 720

Qy   776 AGCCAGGT-CTGGTCCGTGGTCCCCGTGTCCCCCGCACCCAGGGG--ACAGGCACTCAGGAGG 832
            ||||||||||||||||||||||||||||||||||||||||||||||   |||||
Db   721 AGCCAGGTCCTGGTCCGTGGTCCCCGTGTCCCCCGCACCCAGGGGAAACGGCACTCCGGAGG 780

Qy   833 GCCC 836
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Db   781 GGCC 784
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RESULT 10
BM042052
LOCUS   BM042052   749 bp mRNA   linear   EST 07-NOV-2001
DEFINITION 603616054F1 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:5420700 5',
            mRNA sequence.

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Qy   404 TGCTCTGGGGACCCCGCCAGCTATAGGCTTCTGGGGGGCCCCGCTCAGCCCACCACTGGGT 463
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Db   362 TGCTCTGGGGACCCCGCCAGCTATAGGCTTCTGGGGGGCCCCGCTCAGCCCACCACTGGGT 421

Qy   464 GTGGTGCCCCAGGCCTCTGTGCCACTCCTCACAGACCTGGAGCCTGTCTCCTG 523
            |||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db   482 GTTCCTGAGGCACATCCTAACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCCAG 541

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Qy   762 CCATCTATGACTTGAGCCAGGTCTGGTCCGTGGT--GTCCCCGCACCCAGGGGACA 819
            |||||||||||||||||||||||||||||||||||  ||||||||||||||||||||
Db   719 CCATCTATGACTTGAGCCAGGTCTGGTCCGTGGTTGTCCCCGCACCCAGGGGGACA 778

Qy   820 GGCACTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGGTGGACTGAGTAGA 868
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Db   779 GGCACTCAGGAGGGGCCCAGTAAAGGCTGAGATGAAGGTGACTACTGAGTAGA 827
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RESULT 9
BQ876328
LOCUS   BQ876328   957 bp mRNA   linear   EST 16-AUG-2002
DEFINITION AGENCOURT_8203515 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6267374
            5', mRNA sequence.
ACCESSION   BQ876328
VERSION   BQ876328.1 GI:22268334
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 957)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2437 row: j column: 15
            High quality sequence stop: 697.
FEATURES   Location/Qualifiers
     source   1..957
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6267374"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:

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ACCESSION   BM042052
VERSION     BM042052.1  GI:16771319
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 749)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM1875 row: 1  column: 13
            High quality sequence stop: 748.
FEATURES             Location/Qualifiers
     source          1..749
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5420700"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN

Query Match     70.7%;  Score 723.2;  DB 12;  Length 749;
Best Local Similarity  98.8%;  Pred. No. 6.6e-138;
Matches  739;  Conservative   0;  Mismatches   8;  Indels   1;  Gaps   1;

Qy     54 GACCATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCTGAGCCAGGCAC 113
          ||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 GACCACGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCTGAGCCAGGCAC 60

Qy    114 TGCCCTGCTGTGCTACTCCTGCAAAGCCAGTGAGCAACCAGGAGCAACCAGGAGCAGTGGA 173
          ||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
Db     61 TGCCCTGCTGTGCTACTCCTGCAAAGCCAGTGAGCAACCAGGAGCAACGAGGAGCAGTGGA 120

Qy    174 GAACTGACCACCAGCTGGGGGAGCAGTGCTGACGACGCGCGCATCCGCGCAGTTGGCCTCCT 233
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 GAACTGACCACCAGCTGGGGGAGCAGTGCTGACGACGCGCGCATCCGCGCAGTTGGCCTCCT 180

Qy    234 GACCGTCATCAGCAAAGCTGCAGCTTGAACTGCGGTGGATGACTCACAGGACTACTACGT 293
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 GACCGTCATCAGCAAAGCTGCAGCTTGAACTGCGGTGGATGACTCACAGGACTACTACGT 240

Qy    294 GGGCAAGAAGAACATCACGTGCTGTGACACCGGACTTCGTGCAACGGCCAGCGGGGGCCATGC 353
          ||||||||||||||||||||||||||||||||||| |||||||||||||||||||| |||||
Db    241 GGGCAAGAAGAACATCACGTGCTGTGACACCGGACTTGTGCAACGGCCAGCGGGGGCCCATGC 300

Qy    354 CCTGCAGCCGGCTGCGGCCATCCTTGCCGTCCCTGCCTGCCACTCGGCTGCCCTCGGGG 413
          ||||||||||||||||||||||||||| |||||||||||||||||||||||||||||
Db    301 CCTGCAGCCGGCTGCTGCCATCCTTGCGCTGCCTGCCACTCGGCTGCCCTCGGGG 360

Qy    414 ACCCGGCCAGCTATAGGCTCTCGGGGGCCCCCGCAGCCCACACTGGGTGTGGTGCCCC 473
          ||||||||||||| |||||||||||||||| |||||||||||||||||||||||||||
Db    361 ACCCGGCCAGCTCTAGGCTCTCGGGGGCGCCCGCAGCCCACACTGGGTGTGGTGCCCC 420
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Qy    474 AGGCCTTGTGCCACTCCTCACAGACCTGGCCAGTGGGGAGGCCTGTCCTGTTCCTGAGG 533
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421 AGGCCTCTGTGCCACTCCTCACACACACCGGCCAGTGGGGAGGCCTGTCCTGTTCCTGAGG 480

Qy    534 CACATCCTAACGAAGTCGACCATGATGTCTGCACACCGTGTCCCCACCCTGACCCTC 593
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481 CACATCCTAACGAAGTCGACCATGTATGTCTGCGCCCCACCCTGTCCCCACCCTGACCCTC 540

Qy    594 CCATGGCCCTCTCCAGACTCCACCGGACTCCACCCGGTCCACCCTGTCCACCCTG 653
          |||||||||||||||||||||||||||||||||||| |||||||||||||||||
Db    541 CCATGGCCCTCTCCAGGACTCCACCGGACTCTCATTGGACAGGATCCGCGCCCTG 600

Qy    654 CAGATGGCCCTCCAACCTCTGGCTGTTCCTGTGGCCCAGCATTCTCCACCCTTA 713
          |||||| ||| |||||||| ||||||||||||| |||||| |||||||||||||
Db    601 CAGATGG-CCCTCCAACCTCTCTGTGCTGTTCCATGGCCCAGCATTCTCCACCCTTA 659

Qy    714 ACCCTGTCTCAGGACACCTTCTCCCAGGAAGCCTTCCCTGCCACCCATCTATGACT 773
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    660 ACCCTGTCTCAGGACACCTTCTCCCCAGGAAGCCTTCCCGCCCACCCCATCTATGACT 719

Qy    774 TGAGCCAGGTCTGGTCCGTGGTGTCCCC 801
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Db    720 TGAGCCAGGTCTGGTCCGTGGTGTCCCC 747
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RESULT 11
BU173702
LOCUS       BU173702    901 bp    mRNA    linear    EST 04-SEP-2002
DEFINITION  AGENCOURT_7569845 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6074479
            5', mRNA sequence.
ACCESSION   BU173702
VERSION     BU173702.1  GI:22687686
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 901)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2290 row: e  column: 08
            High quality sequence stop: 667.
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     source          1..901
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:6074479"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
ORIGIN

Query Match     69.9%;  Score 715;  DB 13;  Length 901;
Best Local Similarity  96.5%;  Pred. No. 3.5e-136;
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Matches 763; Conservative   0; Mismatches   22; Indels   6; Gaps   3;

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Qy     60 GAAGGCTGTGCTGCTTGCCCTGTTGATGGGAGGCTTGGCCCTCGAGCCAGGCACTGCCCT 119
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      4 GAAGGCTGTGCTGCTTGCCCTGTTGATGGGAGGCTTGGCCCTCGAGCCAGGCACTGCCCT 63

Qy    120 GCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGACTGCCTGCAGGTGAGGAGAACTG 179
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     64 GCTGTGCTACTCCTGCAAAGCCCAGGTGAGCAACGAGACTGCCTGCAGGTGAGGAGAACTG 123

Qy    180 CACCCAGCTGGGGAGCAGTGCGTCGACCGGCGCGATCCGCGCAGTTGGCCTCTGACCGT 239
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    124 CACCCAGCTGGGGAGCAGTGCTCGACCGGCGCGATCCGCGCAGTTGGCCTCTGACCGT 183

Qy    240 CATCAGCAAAGCTGCAGCTTGAACTGCGTGGATGACTTCACAGGACTACGTGGGCAA 299
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    184 CATCAGCAAAGCTGCAGCTTGAACTGCGTGGATGACTTCACAGGACTACTACGTGGGCAA 243

Qy    300 GAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCA 359
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    244 GAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCTCA 303

Qy    360 GCCGCTGCCGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTCTGGGGACCCGG 419
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    304 GCCGCTGCTGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTCTGGGGACCCCGG 363

Qy    420 CCAGCTATAGGCTCTGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCT 479
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    364 CCAGCTCTAGGCTCTGGGGGCCCCGCTGCAGCCCACACTGGGTGTGCCCCAGGCCT 423

Qy    480 CTGTGCCACTCCTCACAGACTGGCCAGTGGGAGGCCTTGTCCTGGTTCCTGAGGCACATC 539
          ||||||||||||||||||| || |||||||||||||||||||||||||||||||||||||
Db    424 CTGTGCCACTCCTCACACACCGCCAGTGGGAGGCCTGTTCCTGGTTCCTGAGGCACATC 483

Qy    540 CTAACGCAAGTCTGACCATGTATGTCTGCGCCCGTGTCCCCACCCTGTCCCCATGG 599
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    484 CTAACGCAAGTCTGACCATGTATGTCTGCGCCCGTGTCCCCACCCTGTCCCCATGG 543

Qy    600 CCCTCTCAGGACTCCACCCGGCAGATCAGCTTCTAGTGACACAGATCCGCCTGACAGATG 659
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    544 CCCTCTCCAGGACTCCCACCCGGCAGATCAGCTTCTATTGACACAGATCCGCCTGACAGATG 603

Qy    660 GCCCCTCCAACCCCTCTGCTGCTGTTCCATGGCCCAGCAATTCTCCACCCTTAACCCTG 719
          |||||||| |||||||||||||||||||||||||||||||||||||||||||||||||||
Db    604 GCCCCTCCAACCCCTCTGCTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTG 663

Qy    720 TGCTCAGGCAGCACCTCTTCCCCAGGAAGCCTTCCTGCCCACCCCATCTATGACTTGAGCC 779
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    664 TGCTCAGGCAGCACCTCTTTCCCCANGAAGCCTTCCTGCCCCCCATCTATGACTTGAGCC 723

Qy    780 A-GGTCTGGTCCGTG---GTGTCCCCCCACCCAGCAGGGGGACAGGCACT--CAGGAGG 833
          | |||||||| ||||   |||||||||||||||||||||||||||||||   |||||||
Db    724 AGGGGTCTGGTCCGTGGGGTGTCCCCCANCAGGGGGGACAGGCACTTCAAGGAGGG 783

Qy    834 CCCAGTAAAGG 844
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Db    784 GCCGGTAAAGG 794
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RESULT 12
BM980213/c

LOCUS   BM980213   743 bp   mRNA   linear   EST 21-FEB-2003
DEFINITION UI-CF-EN1-adf-h-09-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
            UI-CF-EN1-adf-h-09-0-UI 3', mRNA sequence.
ACCESSION   BM980213
VERSION   BM980213.1 GI:19601447
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 743)
AUTHORS   Bonaldo,M.F., Lennon,G. and Soares,M.B.

TITLE   Normalization and subtraction: two approaches to facilitate gene
            discovery
JOURNAL   Genome Res. 6 (9), 791-806 (1996)
MEDLINE   97044477
PUBMED   8889548
COMMENT   Contact: McCray, PB
            McCray Lab
            University of Iowa
            2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
            Tel: 319 356 4866
            Fax: 319 356 7171
            Email: paul-mccray@uiowa.edu
            Tissue Procurement: Dr. M. J. Welsh, University of Iowa
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Researchers may obtain clones from Research
            Genetics (www.resgen.com) or from Open Biosystems
            (www.openbiosystems.com).
            Seq primer: M13 FORWARD
            POLYA=Yes.
FEATURES   Location/Qualifiers
     source   1..743
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-CF-EN1-adf-h-09-0-UI"
                     /tissue_type="Primary Lung Cystic Fibrosis Epithelial
                     Cells"
                     /dev_stage="Adult"
                     /lab_host="DH10B (life Technologies) (T1 phage resistant)"
                     /clone_lib="UI-CF-EN1"
                     /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site_1: EcoR I; Site_2: Not I;
                     UI-CF-EN1 is a normalized cDNA library containing the
                     following tissue(s): Primary Lung Cystic Fibrosis
                     Epithelial Cells. The library was constructed according to
                     Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                     1996. First strand cDNA synthesis was primed with an
                     oligo-dT primer containing a Not I site. Double stranded
                     cDNA was ligated to an EcoR I adaptor, digested with Not
                     I, and cloned directionally into pT7T3-Pac vector. The
                     oligonucleotide used to prime the synthesis of
                     first-strand cDNA contains a library tag sequence that is
                     located between the Not I site and the (dT)18 tail. The
                     sequence tag for this library is CTGCTCAGGT.
                     TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
                     6hr to LPS 24h
                     TAG_LIB=UI-CF-EN1
                     TAG_SEQ=CTGCTCAGGT"

ORIGIN

Query Match   69.1%; Score 706.4; DB 12; Length 743;
Best Local Similarity   98.2%; Pred. No. 1.8e-134;
Matches 713; Conservative   0; Mismatches   13; Indels   0; Gaps   0;

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Qy    298 AAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCTG 357
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    742 AGGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCTG 683

Qy    358 CAGCCGGCTGCGCGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTCTGTCTGGGACCC 417
          ||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||
Db    682 CAGCCGGGCTGCTGGCCATCCTTGCGCTGCTCCCTGCACTCGGCCTGCTCTGTCTGGNGACCC 623

Qy    418 GGCCAGCTATAGGTCTGGGGGGCCCCGCCCGCTGCAGCCCCAGCACTGGTGTTGGTGCCCCAGC 477
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    622 GGCCAGCTNTAGGCTCGGGGGGCCCCGCCCGCTGCAGCCCCACACTGGGTGTGTGCCCCAGC 563

Qy    478 CTCTGTGCCACTCCTCACAGACCTGGCCAGTGGGAGGCCTGTCCTGGTTCCTGAGGCACA 537
          ||||||||||||||| || |||||||||||||||||||||||||||||||||||||||||
Db    562 CTCTGTGCCACTCCTCACACACCGGGCCAGTGGGAGGCCTGTCCTGGTTCCTGAGGCACA 503

Qy    538 TCCTAACGCAAGTCTGACCATGTATGTCTGCGCCCCGTGTCCCCCACCCTGACCCCTCCAT 597
```

EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCACGAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

ORIGIN

Query Match   68.6%; Score 702; DB 12; Length 735;
Best Local Similarity 99.6%; Pred. No. 1.5e-133;
Matches 735; Conservative 0; Mismatches 0; Indels 3; Gaps 3;

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Qy   139 GCCCAGGTGAGCAACGGAGGACTGCGCAGGTGGAGAACTGCACCCAGCTGGGGGAGCAG 198
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1 GCCCAGGTGAGCAACGGAGGACTGCGCAGGTGGAGAACTGCACCCAGCTGGGGGAGCAG  60

Qy   199 TGCTGGACCGGCGGCGATCCGGCCAGTTGGCCTCCTGACCGTCATCAGCAAAGGTGCAGC 258
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 TGCTGGACCGGCGGCGATCCGGCCAGTTGGCCTCCTGACCGTCATCAGCAAAGGTGCAGC 120

Qy   259 TTGAACTGCGTGGATGACTCACAGGAGAAGAACATCACGTGCTGT 318
          ||||||||||||||||||||||||||||||||||||||||||||||
Db   121 TTGAACTGCGTGGATGACTCACAGAAGAAGAACATCACGTGCTGT 180

Qy   319 GACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCGGCTGCGCCATCCTT 378
          |||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 GACACCGACTTGTGCAACGCCAGCGGGCCCATGCCCGGCTGCGCCATCCTT 240

Qy   379 GGCTGCTCCCTGCACTCGGCCGTGTGCTCTGGGACCCGGCCAGCTATAGGCTCTGGGG 438
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 GGCTGCTCCCTGCACTCGGCCGTGTGCTCTGGGGACCCGGCCAGCTATAGGCTCTGGGG 300

Qy   439 GGCCCCGCTGCAGCCCACACTGGGTGGTGGTCCCCAGGCCTTCTGTGCCACTCCTCACAGA 498
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 GGCCCCGCTGCAGCCCACACTGGGTGGTGGTCCCCAGGCCTTCTGTGCCACTCCTCACAGA 360

Qy   499 CCTGGCCCAGTGGGAGCCCTGTTCCTGGGTTCCTGAGCGCACATCCTAACGCAAGTCTGACCAT 558
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 CCTGGCCCAGTGGGAGCCCTGTTCCTGGGTTCCTGAGCGCACATCCTAACGCAAGTCTGACCAT 420

Qy   559 GTATGTCTGCACCCCGTGCCCCCACCCTGACCCTCCCAGGACTCCAC 618
          |||||||||||||||||||||||||||||||||||||||||||||||
Db   421 GTATGTCTGCACCCCGTGCCCCCACCCTGACCCTCCCAGGACTCCAC 480

Qy   619 CCGGCAGATCAGCTTAGTGACACAGATCGGCGTGCAGATGGCCCCTCCAACCCTCCTG 678
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   481 CCGGCAGATCAGCTTAGTGACACAGATCGGCGTGCAGATGG-CCCTCCAACCCTCCTG 539

Qy   679 CTGCTGTTTCCATGGCCCAGCATTCCCACCCTTAACCCTGTGTCCAGGCCACCCTTCCC 738
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Db   540 CTGCTGTTTCCATGGCCCAGCATTCTCCACCCTTAACCCTGTGTCCAGGCCACCCTTCCC 599

Qy   739 CCAGGAAGCCTTCCCTGCCACCCATCTATGACTTGAGCCAGGTCTGGTCCGTGTGTC 798
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   600 CCAGGAAGCCTTCCCTG-CCACCCCATCTATGACTTGAGCCAGGTCTGGTCCGTGTGTC 658

Qy   799 CCCCGCACCCAGGGGACAGGCACTCAGGAGGGCCAGTAAAGGCTGAGATGAAGTGG 858
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   659 CCCCGCACCCAGGGGACAGGCACTCAGGAGGG-CCAGTAAAGGCTGAGATGAAGTGG 717

Qy   859 ACTGAGTAGAACTGGAGG 876
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Db   718 ACTGAGTAGAACTGGAGG 735
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RESULT 14
BU174241
LOCUS   BU174241   936 bp mRNA   linear EST 04-SEP-2002
DEFINITION AGENCOURT_8107306 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6267237
            5', mRNA sequence.
ACCESSION   BU174241
VERSION   BU174241.1 GI:22688225

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Db   502 TCCTAAGCAAGTCTGACCATGTATGTCTGCGCCCCTGTCCCCCACCCTGACCCTCCCAT 443
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Qy   598 GGCCCTCTCCAGGACTCCACCCCGGCAGATCAGCTCAGTGACACAGATCCGGCTGCAGA 657
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   442 GGCCCTCTCCAGGACTCCACCCCGGCAGATCGGCTCTATTGACACAGATCCGCCTGCAGA 383

Qy   658 TGGCCCCTCCAACCCTCCTGCTGCTGTTTCCATGGCCCAGCCATTCTCCACCCTTAACCC 717
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   382 TGGCCCCTCCAACCCTCCTGCTGCTGTTTCCATGGCCCAGCCATTCTCCACCCTTAACCC 323

Qy   718 TGTGTCTCAGGCACCCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAG 777
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   322 TGTGTCTCAGGCACCCTTCCCCCAGGAAGCCTTCCCTGCCCACCCCATCTATGACTTGAG 263

Qy   778 CCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCA 837
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   262 CCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCAGGGACAGGCACTCAGGAGGGCCCG 203

Qy   838 GTAAAGGCTGAGATGAAGTGGACTGAGTAGAACTGAGGACAGAGTCGACGTGAGTTCC 897
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   202 GTAAAGGCTGAGATGAGTGAGGACTGAGTAGAACTGAGGACAGAGTCGACGTGAGTTCC 143

Qy   898 TGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGGAAGGGGCCAGGCCTTCACATTCGT 957
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   142 TGGGAGTCTCCAGAGATGGGGCCTGGAGGGCCTGGAGGGAAGGGGCCAGGCCTTCACATTCGT  83

Qy   958 GGGGCTCCCTGAATGGCCAGCCTGAGCACCAGGTAGCGCCCTTAATAAACACCTGTTGGGATA 1017
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    82 GGGGCTCCCTGAATGGCCAGCCTCAGCACAGGTAGCGCCCTTAATAAACACCTGTTGGATA  23

Qy  1018 AGCCCA 1023
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Db    22 AGCCAA  17
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RESULT 13
BM041997
LOCUS   BM041997   735 bp mRNA   linear EST 07-NOV-2001
DEFINITION 603615880F1 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:5420779 5',
            mRNA sequence.
ACCESSION   BM041997
VERSION   BM041997.1 GI:16771264
KEYWORDS   EST.
SOURCE   Homo sapiens (human)
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 735)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE   National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM1875 row: o column: 20
            High quality sequence stop: 733.
FEATURES   Location/Qualifiers
     source   1..735
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5420779"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: sKin; Vector: pOTB7; Site_1: XhoI; Site_2:

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Db    421 TGCCACTCCTCACACCCGGCCCAGTGGGAGCCTGTCCTGGTTCTGAGGCACATCCTA 480
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Qy    543 ACGCAAGTCTGACCATGTATGTCTGCACCCCTGTCCCCACCCTGACCCTCCATGGCC 602

Db    481 ACGCAAGTCTGACCATGTATGTCTGCGCCCCTGTCCCCACCCTGACCCTCCATGGCC 540
              ||||||||||||||||||||||| |||||||||||||||||||||||||||||||
Qy    603 TCTCCAGGACTCCACCCGGCAGAGATCAGCTTAGTGACACAGATCCGCCTGCAGATGGCC 662

Db    541 TCTCCAGGACTCCACCCGGCAGAGATCGGCTCTATTGACACAGATCCGCCTGCAGATGGCC 600
              ||||||||||||||||||||||||||| |||| ||||||||||||||||||||||||||
Qy    663 CCTCCAACCCTCTGCTGCTGTTTCAT-GGCCCAGCATTCTCCACCCTTAACCCTGTG 721

Db    601 CCTCCAAACCTCTTCGTGCTGTTTCCATGGGCCCAGCATTCTCCACCCTTAACCCTGTG 660
              ||||||| ||||| |||||||||||| ||||||||||||||||||||||||||||||
Qy    722 CTCAGGACCCTCTTCCCCCAGGAAGCTTCCC--TGCCCACCCCATC---TATGACTTGA 776

Db    661 CTCAAGCACCTCTTCCCCCAGGAAGCTTCCCCTGGCCCACCCCATCTATTGACTTTGA 720
              ||||| ||||||||||||||||||||||||||  |||||||||||||| ||||| ||
Qy    777 GCCAGGTCTGGTCCGTGGTGTCCCCCGCACCCAGCA-GGGGACAGGCACTCAGGAGGGCC 835

Db    721 GCCAGGCCGGGCCCGTGGTGTCCCCCGCACCCCGCAGGGGGACGGGGCACTCGGGAGGGCC 780
              ||||| | ||| ||||||||||||||||||||||| |||||||  ||||||| |||||||
Qy    836 CAG--TAAAGGCTGAGATGAAGTGGACTG 862

Db    781 CCGCTAAAGGGCTGACCATGAACGGGACTG 809
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RESULT 15
BM980194/c
LOCUS       BM980194    UI-CF-EN1-adf-d-13-0-UI.s1 UI-CF-EN1 Homo   738 bp   mRNA   linear   EST 21-FEB-2003
DEFINITION  UI-CF-EN1-adf-d-13-0-UI 3', mRNA sequence.      sapiens cDNA clone
ACCESSION   BM980194
VERSION     BM980194.1  GI:1960409
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 738)
  AUTHORS   Bonaldo,M.F., Lennon,G. and Soares,M.B.
  TITLE     Normalization and subtraction: two approaches to facilitate gene
            discovery
  JOURNAL   Genome Res. 6 (9), 791-806 (1996)
  MEDLINE   97044477
  PUBMED    8889548
COMMENT     Contact: McCray, PB
            McCray Lab
            University of Iowa
            2024 University of Iowa Med Med Labs, Iowa City, IA 52242, USA
            Tel: 319 356 4866
            Fax: 319 356 7171
            Email: paul-mccray@uiowa.edu
            Tissue Procurement: Dr. M. J. Welsh, University of Iowa
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: Researchers may obtain clones from Research
            Genetics (www.resgen.com) or from Open Biosystems
            (www.openbiosystems.com).
            Seq primer: M13 FORWARD
            POLYA=yes.
FEATURES             Location/Qualifiers
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                     Cells"
                     /dev_stage="Adult"
                     /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
                     /clone_lib="UI-CF-EN1"
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KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 936)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/,
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTP
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: LLCM2437  row: d  column: 22
            High quality sequence stop: 567.
FEATURES             Location/Qualifiers
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                     /clone="IMAGE:6267237"
                     /tissue_type="melanotic melanoma, cell line"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_lib="NIH_MGC_112"
                     /note="Organ: sKin; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH_MGC Library."
```

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ORIGIN

Query Match    67.9%;   Score 694.6;  DB 13;   Length 936;
Best Local Similarity   95.3%;   Pred. No. 5.5e-132;
Matches  771;  Conservative   0;  Mismatches  29;  Indels  9;  Gaps  5;

Qy     63 GGCTGTGCTGCTTGCCCTGTTGATGGAGGCGTTGGCCCTGCAGCCAGGCACTGCCCTGCT 122
             |||||||||||||||||||||||| |||||||||||||||||||||||||||||||||||
Db      1 GGCTGTGCTGCTTGCCCTGTTGATGGAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCT 60

Qy    123 GTGCTACTCCTGCAAAGCCCAGTGAGCAACAGGACTGCCTGCAGTGGAGAACTGCAC 182
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy    183 CCAGCTGGGGAGCAGTGCTGACACCGGCCATCCGCGACGGCCTCCTGACCGTCAT 242
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Qy    243 CAGCAAAGGCTGCAGCTTGAACTGCTGGATGACTACTACGGTGGGCAAGAA 302
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Db    181 CAGCAAAGGCTGCAGCTTGAACTGCTGGATGACTACTACGGTGGGCAAGAA 240

Qy    303 GAACATCACGTGCTGTGACACCGGACTTGTGCAAGCGCCCATGCCCTGCAGCC 362
             |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 GAACATCACGTGCTGTGACACCGGACTTGTGCAAGCGCCCAGCGGGCCCATGCCCTGCAGCC 300

Qy    363 GGCTGCCCCATCCTTGGCACTGCTCCCTGCACTCGGGCTCTGGGGACCCGGCCA 422
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Qy    423 GCTATAGGCTCTGGGGGCCCCCGTCGAGCGCCACACTGGGTGTGGTGCCCACGGCCTCTG 482
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361 GCTCTAGGCTCTGGGGGCCCCCGTCGAGCGCCACACTGGGTGTGGTGCCCAGGGCCTCTG 420

Qy    483 TGCCACTCCTCACAGACCTGGGCCCAGTGGGAGGCCTGTCCTGGTTCCTGAGGCACATCCTA 542
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Db   19 CAA 17

Search completed: September 18, 2004, 19:14:36
Job time : 4680.08 secs

/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
modified polylinker; Site_1: EcoR I; Site_2: Not I;
UI-CF-EN1 is a normalized cDNA library containing the
following tissue(s): Primary Lung Cystic Fibrosis
Epithelial Cells. The library was constructed according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. First strand cDNA synthesis was primed with an
oligo-dT primer containing a Not I site. Double stranded
cDNA was ligated to an EcoR I adaptor, digested with Not
I, and cloned directionally into pT7T3-Pac vector. The
oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dT)18 tail. The
sequence tag for this library is CTGCTCAGGT.
TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
6hr to LPS 24h
TAG_LIB=UI-CF-EN1
TAG_SEQ=CTGCTCAGGT"

ORIGIN

Query Match   67.6%;   Score 691.4; DB 12;   Length 738;
Best Local Similarity   98.1%;   Pred. No. 2.2e-131;
Matches 709; Conservative   0; Mismatches   13;   Indels   1; Gaps   1;

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Qy    301  AAGAACATCACGTGCTCTGACACCGACTTGTGCAACGCCAGCGGGGCCCATGCCCTGCAG  360
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Qy    361  CCGGCTGCCGCCATCCTTGGCGCTGCTCCCTGCACTCGGCCTGCTCTGGGACCCGGC   420
           |||||||||||||||||||||||||||||||||||||||| |||||||||| ||||||
Db    679  CCGCGTGCTGCCATCCTTGGCGCTGCTCCCTGCACTCGGCCTGCTCTGGNGACCCGGC   620

Qy    421  CAGCTATAGGCTTCTGGGGGCCCGGCGCAGCCCCACTGGGTGTGGTGGTGCCCAGGCCTC   480
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Db    619  CAGCTCTAGGCTTCTGGGGGCCCGGCTGCAGCCCCACTGGGTGTGGTGCCCCAGGGCCTN   560

Qy    481  TGTGCCACTCCTCACAGACCTGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCC   540
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Db    559  TGTGCCACTCCTCACACACCCGGCCCAGTGGGAGCCTGTCCTGGTTCCTGAGGCACATCC   500

Qy    541  TAACGCAAGTCTGACCATGTATGTCTGCACCCGTCCCCACCCTGACCCTCCCATGGC   600
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Db    499  TAACGCAAGTCTGACCATGTATGTCTGCGCCCGTCCCCACCCTGACCCTCCCATGGC   440

Qy    601  CCTCTCCAGGACTCCCACCCGGAGATCAGCTCTAGTGACACAGATCCGCTGCAGATGG   660
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Qy    661  CCCCTCCAACCCTCTGTCTGTTTCCATGGCCCCAGCCATTCTCCACCCTTAACCCTGT   720
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Db    379  CCCCTCCAACCCTCTGTCTGTTTCCATGCGCCCCAGCCATTCTCCACCCTTAACCCTGT   320

Qy    721  GCTCAGGCGCACCTCTTCCCCAGGAAGCTTCCTGCCCACCCCATCTATGACTTGAGCCA   780
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Db    319  GCTCAGGCGCACCTCTTCCCCAGGAAGCTTCCTGCCCACCCCATCTATGACTTGAGCCA   260

Qy    781  GGTCTGGTCCGTGCGTGTCCCCGCACCAGCAGGGACACTCAGGAGGGCCCAGTA   840
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Qy    841  AAGGCTGAGATGAAGTGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGG   900
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Db    199  AAGGCTGAGATGAAGTGACTGAGTAGAACTGGAGGACAAGAGTCGACGTGAGTTCCTGG   140

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Qy   1021  CCA 1023
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Blank Sheet